

East Brunswick Public Schools

Department of Academics

COURSE GUIDE

2023-2024

www.ebnet.org/courseguide

Hammar skjold
Upper Elementary
School

Churchill Junior
High School

East Brunswick
High School

East Brunswick Public Schools

COURSE GUIDE 2023-2024

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COURSE GUIDE 2023-2024

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Hammar skjold Upper Elementary School

Elective Courses

Grade 5 Electives

Performing Arts Electives

Beginning Piano

Grade 5-6

This course is designed for the student who has little or no music background. It introduces the fundamentals of playing any keyboard instrument. An electronic keyboard lab will be used to teach the reading of music notation in both treble and bass clefs, and performance of music using two hands. Through the use of headphones, there will be an opportunity for individual practice time and teacher instruction.

Chorus

Grades 5-6

Students selecting Chorus as their elective, will be exposed to a wide variety of musical compositions ranging from classical music to popular music. Students will spend their class periods learning to sing a variety of songs in preparation for a winter and spring concert performance. Along with these concert preparations, students are also taught music, vocabulary and music theory that will serve to enhance the music they are learning for each performance. Students should anticipate additional after school rehearsals in preparation for public performances.

Band

Grades 5-6

This course is an elective course offered to students who currently play woodwind, brass, and percussion instruments. Fundamentals of ensemble playing are emphasized while studying and performing quality band music. Band students should anticipate additional after school rehearsals in preparation for public performances.

Orchestra

Grades 5-6

This course is an elective course offered to students who currently play string instruments (violin, viola, cello, bass). Fundamentals of ensemble playing are emphasized while studying and performing quality orchestra music. Orchestra students should anticipate additional after school rehearsals in preparation for public performances.

Visual Arts Electives

Art Exploration

Grades 5-6

Art Exploration is the art elective course offered to students interested in improving their artistic skills. Art Exploration provides students with an opportunity to experience in greater depth the many varied methods and materials of art media. Exploration and development of line, color, form, texture and space in both 2-dimensional and 3-dimensional projects help to develop individual growth and personal expression.

Practical Arts Electives

Computational Thinking

Grades 5-6

Computational Thinking is an introductory-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Family and Consumer Science

Grade 5-6

The Family and Consumer Sciences Elective will present students with exploratory experiences designed to meet the New Jersey Core Curriculum Standards and allow them to grow as individuals with practical experience. Areas of study will include Introspection of oneself and Cooperative Learning, Financial Literacy, Culinary Arts, Nutrition and Wellness, Human Development and Child/Elder Care, Textiles/Clothing Design, and Career Development.

Hands-on experiences will allow students to develop a sense of self, learn to relate to others, become more independent in thinking and problem solving, and learn to manage a variety of resources from budgets to food and clothing.

STEM

Grades 5-6

This engineering course will introduce the students to hands-on problem solving activities, which emphasize the concepts, skills, and processes of solving various real-world problems. "Experience is a great teacher." This statement explains that we learn best and retain information best with the experience of actually doing something. STEM Education is the edifice for students to apply the knowledge and perform hands-on applications.

Physical Education Electives

Introduction to Dance

Grade 5

This introduction to dance elective course will expose students to a variety of different styles of dance. Students will explore these different styles through critique and performance of a variety of different dance works.

Grade 6 Electives

Performing Arts Electives

Introduction to Theatre

Grade 6

This course will introduce students to the world of theatre and acting in a fun and interactive way! Students will learn the basic skills of acting and use these skills to perform short skits with their peers. Students will improve their public speaking and communication skills through hands-on group activities.

Beginning Piano

Grade 5-6

This course is designed for the student who has little or no music background. It introduces the fundamentals of playing any keyboard instrument. An electronic keyboard lab will be used to

teach the reading of music notation in both treble and bass clefs, and performance of music using two hands. Through the use of headphones, there will be an opportunity for individual practice time and teacher instruction.

Chorus

Grades 5-6

Students selecting Chorus as their elective, will be exposed to a wide variety of musical compositions ranging from classical music to popular music. Students will spend their class periods learning to sing a variety of songs in preparation for a winter and spring concert performance. Along with these concert preparations, students are also taught music, vocabulary and music theory that will serve to enhance the music they are learning for each performance. Students should anticipate additional after school rehearsals in preparation for public performances.

Band

Grades 5-6

This course is an elective course offered to students who currently play woodwind, brass, and percussion instruments. Fundamentals of ensemble playing are emphasized while studying and performing quality band music. Band students should anticipate additional after school rehearsals in preparation for public performances.

Orchestra

Grades 5-6

This course is an elective course offered to students who currently play string instruments (violin, viola, cello, bass). Fundamentals of ensemble playing are emphasized while studying and performing quality orchestra music. Orchestra students should anticipate additional after-school rehearsals in preparation for public performances.

Visual Arts Electives

Art Exploration

Grades 5-6

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Family and Consumer Science

Grades 5-6

The Family and Consumer Sciences Elective will present students with exploratory experiences designed to meet the New Jersey Core Curriculum Standards and allow them to grow as individuals with practical experience. Areas of study will include Introspection of oneself and Cooperative Learning, Financial Literacy, Culinary Arts, Nutrition and Wellness, Human Development and Child/Elder Care, Textiles/Clothing Design, and Career Development. Hands-on experiences will allow students to develop a sense of self, learn to relate to others, become more independent in thinking and problem solving, and learn to manage a variety of resources from budgets to food and clothing.

Media Production Lab

Grade 6

In Media Production Lab, students will learn about creating, recording, and editing multiple forms of media that have become an ever-growing part of our everyday lives. Covering Photography, Video Production, Audio Recording and editing, this class will introduce and immerse students in multiple forms of media and what goes into creating what they experience daily. The class will consist of multiple unit projects that cover a combination of the artistic and technical aspects of media production. Each student will walk away with creations that they will have collaborated on and can share over various platforms.

STEM

Grades 5-6

This engineering course will introduce the students to hands-on problem solving activities, which emphasize the concepts, skills, and processes of solving various real-world problems. “Experience is a great teacher.” This statement explains that we learn best and retain

information best with the experience of actually doing something. STEM Education is the edifice for students to apply knowledge and perform hands-on applications.

Churchill Junior High School

Core Courses

English Courses

2016 - English 7

Grade 7 | Credits: 10

English 7 provides a comprehensive, in-depth range of balanced literacy experiences in reading and writing. Students write narrative, argument, and informational pieces across the year. Students work in book clubs and through independent reading to build their literary and informational reading skills, while also strengthening their ability to complete research and report on a topic. The course provides students with two opportunities to engage in book clubs with their peers around genre specific books, along with daily opportunities for collaboration and discussion with peers around curricular content.

2017 - English 7 H

Grade 7 | Credits: 10 | Prerequisites will determine placement into course

English 7 Honors provides instruction and activities at a faster pace and with increased depths. In this course, organized by units of study related to literary genres and styles of writing, students engage in an in-depth range of balanced literacy experiences in reading and writing. Students write narrative, argument, and informational pieces across the year. Students work in book clubs and through independent reading to build their literary and informational reading skills, while also strengthening their ability to complete research and report on a topic. The course provides students with two opportunities to engage in book clubs with their peers around genre specific books, along with daily opportunities for collaboration and discussion with peers around curricular content.

2010 - English 8

Grade 8 | Credits: 5

English 8 provides a comprehensive, in-depth range of language experiences for students in literature and in writing. Students read short and full-length works categorized by literary genre and relate to their own lives and/or other literature that they have read. Writing assignments are based on class reading, instruction and discussion. Students participate in small and large group discussions. They receive significant instruction in reading, writing, research and vocabulary skills. Over the course of the year, students will be expected to complete short mini-research simulations and read independently both in class and at home. This course will

prepare students for the state mandated exam, which measures performance relative to the New Jersey Student Learning Standards.

2012 - English 8 H

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

English 8 Honors provides instruction and activities at a faster pace and with increased depth. In this course, organized by literary genre, students explore short and full-length works. Students develop skills in literary analysis, especially in recognizing the characteristics of each genre and the effects of those characteristics on the works studied. Reflecting a variety of writing modes, writing assignments are based on the readings and on students' experiences. Students participate in small and large group discussions. They receive significant instruction in reading, writing, research, and vocabulary skills. Honors students should be self-motivated and driven to set and meet their own deadlines. Over the course of the year, students will be expected to complete several short mini-research simulations and read independently both in class and at home. This course will prepare students for the state mandated exam, which measures performance relative to the New Jersey Student Learning Standards.

2015 - English 9

Grade 9 | Credits: 5

English 9 provides broad experiences for students in writing and in literature. Students read a wide range of short and full-length works, representing a variety of literary genres. They apply their understanding of their reading to personal experiences. Writing assignments are based on class reading, instruction, and discussion. Students participate in small and large group discussions. They receive significant instruction in reading, writing, research, and vocabulary skills. This course will prepare students for the state mandated exam, which measures performance relative to the New Jersey Student Learning Standards. Research tasks and independent reading are course requirements. Meets NCAA Core Course Requirements

2014 - English 9 H

Grade 9 | Credits: 5 | Prerequisites will determine placement into course

English 9 Honors follows the English 8 Honors program, providing instruction at a faster pace and with increased depth. Organized by literary genre, the course explores short and full-length works of literary merit. Students develop skills in literary analysis, especially in recognizing the characteristics of each genre and the effect of those characteristics on the meaning of specific works. Writing assignments are based on the literature and reflect a variety of modes and audience requirements. Students participate in small and large group discussions. They receive significant instruction in reading, writing, research, and vocabulary skills. This course will prepare students for the state mandated exam, which measures performance relative to the

New Jersey Student Learning Standards. Research tasks and independent reading are course requirements. Meets NCAA Core Course Requirements.

Health and Physical Education Courses

Health Courses

2735 - Health 7

Grade 7 | Credits: 2.5

The purpose of the seventh grade health course is to establish a solid foundation of health information that the student will use throughout their life. It is a crucial point in the development of the student to create a base for healthy lifestyle practices including: proper diet, exercise habits, leadership skills, and refusal skills. The student will also be informed of the risk factors of an unhealthy lifestyle including: tobacco products and their effects on the human body, alcohol and its effect on the human body, as well as other drugs. The students will also undergo an intricate family life unit that will inform the student on the anatomy and physiology of the reproductive systems as well as other risk factors to a healthy lifestyle in this area. The students will develop a sense of self-worth and personal responsibility in this health class. We will establish this foundation by relating these new ideas with the concepts the student is learning in other areas of education such as Math, Science, Language Arts, Career Education and Consumer/Family/Life Skills.

2730 - Health 8

Grade 8 | Credits: 2.5

The purpose of health instruction in grade eight is to emphasize the establishment, development and achievement of a positive lifestyle. The student will acquire health information, decision-making skills, and coping strategies that are necessary for physical, intellectual, social and emotional well-being. The grade eight health course deals with mental health, drug and alcohol abuse, family life relationships, consumer health, environmental health, prevention and control of disease, nutrition, first aid, and stress and bullying. Developmental or adaptive health is also available to students with special needs.

2722 - Health 9

Grade 9 | Credits: 2.5

Grade 9 Health is a comprehensive program of interrelated components that stress the choices and skills necessary for wellness. Topics to be covered include the functioning and structures of the endocrine system and reproductive system along with changes during adolescence as they relate to childbirth and pregnancy including, teen pregnancy and teen pregnancy options. Various methods of contraception (stressing abstinence), STI's, their symptoms, spread, prevention, and treatments; along with dating violence, date rape, gender issues and gender bias

issues. Students will acquire accurate and current health information and develop healthful attitudes and behaviors. Students will discover reliable and current sources of information that they will consult now and in the future. This course teaches and reinforces the skills necessary to weigh options and to make responsible and healthy choices. Developmental or adaptive health is also available to students with special needs.

Physical Education Courses

2734 - Physical Education 7

Grade 7

The seventh-grade physical education program offers a variety of team, lifetime sports, and physical fitness activities. During each unit, there is an emphasis on teaching the fundamentals of each sport/activity, sportsmanship/teamwork, rules, and basic strategies. Physical fitness is also an integral part of the program and includes aerobic and anaerobic exercises. Physical education is taken every other day on an A/B block schedule for a semester. The other half of the year the students will take health. Developmental or adapted physical education is also available to students with special needs.

2728 - Physical Education 8

Grade 8

The eighth-grade physical education program offers a variety of team, lifetime sports, and physical fitness activities. During each unit, there is an emphasis on teaching the fundamentals of each sport/activity, sportsmanship/teamwork, rules, and basic strategies. Physical fitness is also an integral part of the program and includes aerobic and anaerobic exercises. Physical education is taken on an A/B block schedule for a semester. The other half of the year the students will take health. Developmental or adapted physical education is also available to students with special needs.

2726 - Physical Education 9

Credits: 2.5

Ninth grade Physical Education is an elective program that allows students to select activities they may be interested in learning more about. Physical education is taken on an A/B block schedule for a semester. Their curriculum includes team sports such as basketball, volleyball, and handball and individual sports include badminton, golf, and social dance. During each unit, there is an emphasis on the teaching of the fundamentals, rules, sportsmanship, and basic sports strategies. Fitness is also an emphasis and includes aerobic and anaerobic exercises as well as testing. Developmental or adaptive physical education is also available to students with special needs.

Mathematics Courses

Grade 7 Courses

2178 - Math 7

Grade 7 | Credits: 5 | Prerequisites will determine placement into course

This course will address 7th grade math standards using alternate teaching strategies and resources. Students will begin a more formal study of the skills necessary for success in Algebra and higher level mathematics courses. The course will explore proportional relationships, operations with rational numbers, expressions and linear equations, scale drawings, informal geometric constructions, as well as introduce students to statistical analysis. In addition, prerequisite math and problem-solving skills will be revisited and reinforced throughout the course.

2165 - Pre-Algebra

Grade 7 | Credits: 5 | Prerequisites will determine placement into course

This course will cover 7th grade math standards in preparation for a student taking Algebra I in Grade 8. Students will begin a more formal study of the skills necessary for success in Algebra and higher level mathematics courses. The course will explore proportional relationships, operations with rational numbers, expressions and linear equations, scale drawings, informal geometric constructions, as well as introduce students to statistical analysis.

2164 - Pre-Algebra Honors

Grade 7 | Credits: 5 | Prerequisites will determine placement into course

This course will cover Pre-Algebra (7th grade math standards) at a more rigorous and advanced level in preparation for a student taking Algebra I Honors in Grade 8. Students will begin a more formal study of the skills necessary for success in Algebra and higher level mathematics courses. The course will explore proportional relationships, operations with rational numbers, expressions and linear equations, scale drawings, informal geometric constructions, as well as introduce students to statistical analysis.

2169 - Algebra I Honors

Grade 7 | Credits: 5 | Prerequisites will determine placement into course

This course will cover Algebra I math standards at a rigorous and advanced level in preparation for a student taking Geometry w Trig Honors in Grade 8. This is a first course in elementary algebra, which uses inductive approaches to develop the basic algebraic operations. Topics

studied include integers and operations, solving linear equations and inequalities, polynomials, graphing linear and nonlinear functions, factoring, fractional equations, irrational numbers, data analysis and verbal/word problems. Problem solving will also be a major component of this course as will the infusion of graphing calculator lessons and activities. Students enrolled in this course must take the Algebra I NJSLA Assessment. Showing proficiency on the Algebra I NJSLA Assessment is currently a state graduation requirement.

Grade 8-9 Courses

2179 - Math 8

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

The mission of the Math 8 curriculum is for students to communicate, make connections, reason and represent the world quantitatively in order to pose and solve problems. At grade Eight, students will begin a more formal study of the skills necessary for success in Algebra and higher level mathematics courses. Functions describe situations in which one quantity is determined by another. The area of a circle, for example, is a function of its radius. When describing relationships between quantities, the defining characteristic of a function is that the input value determines the output value. The notion of a function is introduced in Grade 8. Linear functions are a major focus but note that students are also expected to give examples of functions that are not linear. In high school, students deepen their understanding of the notion of function, expanding their repertoire to include quadratic and exponential functions, and increasing their understanding of correspondences between geometric transformations of graphs of functions and algebraic transformations of the associated equations.

2176 - Algebra I

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

This course will cover Algebra I math standards as a continuation of the algebra preparation foundation begun in seventh grade. Topics studied include integers and operations, solving linear equations and inequalities, polynomials, graphing linear and nonlinear functions, factoring, fractional equations, irrational numbers, data analysis and verbal/word problems. Problem solving will also be a major component of this course as will the infusion of graphing calculator lessons and activities. Students enrolled in this course must take the Algebra I NJSLA Assessment. Showing proficiency on the Algebra I NJSLA Assessment is currently a state graduation requirement. Meets NCAA Core Course Requirements.

2170 - Algebra I Honors

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

This course, intended for the academically talented student in mathematics, uses inductive approaches to develop the basic algebraic operations. In addition to the topics covered in

Algebra I, students will be expected to demonstrate independent thinking as they explore and solve in depth problems related to the applications of the covered topics. Problem solving will also be a major component of this course as will the infusion of graphing calculator lessons and activities. Students enrolled in this course must take the Algebra I NJSLA Assessment. Showing proficiency on the Algebra I NJSLA Assessment is currently a state graduation requirement. Meets NCAA Core Course Requirements

2172 - Geometry with Trigonometry

Grade 9 | Credits: 5 | Prerequisites will determine placement into course

This course develops an understanding of geometry using basic properties, postulates and theorems in the study of triangles, quadrilaterals, and congruence. Other topics include similarity, circles, area, volume, coordinate geometry, transformational geometry, and an introduction to the trigonometric functions and their applications in the right triangle. Students enrolled in this course must take the Geometry NJSLA Assessment. This course is also available at EBHS (1159).

2173 - Geometry with Trigonometry Honors

Grade 8 & 9 | Credits: 5 | Prerequisites will determine placement into course

This course, designed for the mathematically talented student, develops an understanding of more advanced geometric concepts, theorems and topics. In addition to the topics covered in Geometry with Trigonometry, students will be expected to demonstrate independent thinking as they explore and solve in depth problems related to the applications of the covered topics. Students enrolled in this course must take the Geometry NJSLA Assessment. This course is only offered at Churchill Junior High School. Meets NCAA Core Course Requirements.

2171 - Algebra II Honors

Grade 9 | Credits: 5 | Prerequisites will determine placement into course

This course is intended for the academically talented student in mathematics. In addition to the topics covered in Algebra II, students will be expected to demonstrate independent thinking as they explore and solve in depth problems related to the applications of the covered topics. Students enrolled in this course will be expected to purchase either a TI-83+ or TI-84 graphing calculator. These learning tools will be used throughout the course as a means of problem solving and investigation. Students enrolled in this course must take the Algebra II NJSLA Assessment. This course is also offered at EBHS (1162). Meets NCAA Core Course Requirements.

Science Courses

2105 - Science 7

Grade 7 | Credits: 5

Science 7 is a full year course that will build on the elementary and middle school science program. Students will utilize the science practices to explore phenomena related to physical, earth, and life sciences. Students will explore grade level specific concepts by being presented with engaging scientific phenomena and performing investigations to create models that explain the phenomena. In addition to science content, students will further develop science related skills such as asking questions, modeling, and designing investigations.

2106 - Science 8

Grade 8 | Credits: 5

Science 8 is a full-year course designed to provide students with a basic understanding of chemistry, geology, astronomy and meteorology. Students participate in small-group, cooperative learning activities, as well as large-group discussions. This course frequently uses an inquiry approach where students generate questions and revise their thinking as their understandings of scientific concepts are refined. Laboratory skills, data analysis, practical application, and critical thinking using the scientific process are emphasized throughout the course, as well as writing scientific arguments using the claims, evidence, reasoning paradigm.

2108 - Science 8 H

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

Science 8 Honors is a full-year course designed to initiate the serious science student's explorations into chemistry, geology, astronomy and meteorology. The course frequently uses an inquiry approach where students are constructing their knowledge of basic scientific concepts through small-group, cooperative learning activities and laboratory experiences. Laboratory skills, data analysis, practical application, and critical thinking using the scientific process are emphasized throughout the course, as well as writing scientific arguments using the claims, evidence, reasoning paradigm. This course differs from Academic 8th Grade Science by an accelerated pace and increased depth and breadth of content.

2110 - Biology

Grade 9 | Credits: 5

Academic Biology introduces students to broad aspects of the biological sciences including the structure and function of matter and organisms, inheritance and variation of traits in living things, organisms and their interdependent relationships including the effects of humans on the

environment, natural selection and evolution. Students experience a variety of learning strategies, including cooperative group interaction, discussion, demonstration and laboratory experimentation. In all of these activities students incorporate content into their critical thinking. This course is offered at East Brunswick High School students only for students who have not met graduation requirements. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

2112 - Biology Accelerated

Grade 9 | Credits: 5

Accelerated Biology is designed for students who have exhibited past success in science and may continue their study of science in college. This course provides students a comprehensive study of biological sciences including the structure and function of matter and organisms, inheritance and variation of traits in living things, organisms and their interdependent relationships including the effects of humans on the environment, natural selection and evolution. Students experience a variety of learning strategies, including cooperative group interaction, discussion, demonstration and laboratory experimentation. In all of these activities students incorporate content into their critical thinking. Critical analysis of data and problem solving are major thrusts of this course. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

2111 - Biology H

Grade 9 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course

Honors Biology, which provides a rigorous, intensive study of Biology, is designed for students who have done exemplary work in the previous year's science class. This course is geared to those students who have strong science skills, high motivation, and who have exhibited the ability to analyze data critically and arrive at meaningful conclusions. Topics of study include the structure and function of matter and organisms, inheritance and variation of traits in living things, organisms and their interdependent relationships including the effects of humans on the environment, natural selection and evolution. The students continuously engage in critical-thinking activities, analysis of data, and the written presentation of logical conclusions during the extensive laboratory activities. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

Social Studies Courses

Grade 7-8 Courses

2065 - Social Studies 7

Grade 7 | Credits: 5

Social Studies 7 is a skill-based course that teaches historical thinking primarily through the practices of reading historical texts and responding to them in writing, discussion, and formal speaking. Students learn the skills needed to weigh evidence and make assertions in the context of historical content, such as the fall of Rome, the Middle Ages, the Renaissance, and the Reformation.

2060 - Civics Literacy and Early American History

Grade 8 | Credits: 5

This course is designed to acquaint students with Early American History from the American Revolution through the Period of Reconstruction. It emphasizes important personalities, events, and lifestyles during this period of our nation's development. An emphasis on the Constitution, current events, New Jersey history, and a geographic skills program are integral parts of the course. In addition, the development of critical thinking skills, along with library/media research projects and applications of technology are incorporated.

2064 - Civics Literacy and Early American History H

Grade 8 | Credits: 5 | Prerequisites will determine placement into course

The program is an intensive and challenging study of Early American History for highly motivated students. This course is a chronological survey of our history from the American Revolution through the Period of Reconstruction. In addition to the content described above, there are activities requiring extensive reading, independent research, writing, applications of technology, and group discussions.

Grade 9 Courses

2063 - U. S. History I

Grade 9 | Credits: 5

This course is a survey of our nation's history from 1890 through World War II. The study of New Jersey history and government is infused throughout the curriculum. In addition,

critical-thinking, library/media research skills, and applications of technology are developed. Meets NCAA Core Course Requirements.

2062 - U. S. History I H

Grade 9 | Credits: 5 | Prerequisites will determine placement into course

This course is an extension of Early American History Honors and is designed to challenge highly motivated students as they study our nation's history from 1890 through World War II. In addition to the content described above, there are activities requiring extensive reading, independent research, writing, group discussions, critical thinking skills, along with library/media research projects, and applications of technology are also incorporated. Meets NCAA Core Course Requirements.

World Language Courses

Spanish

2215 - Spanish I

Grade 8 – 9 | Credits: 5

This course is activity-centered with emphasis on speaking and listening. Spanish is in constant use in the classroom. The focus is on building a working vocabulary, including common idioms and phrases. Students learn words and very basic and relevant grammatical structures. Teachers also introduce elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is Spanish. Meets NCAA Core Course Requirements.

2217 - Spanish II

Grade 7, 8, 9 | Credits: 5

Spanish II further develops the basic language skills with emphasis on communication in the language, thus enabling students to apply what they have learned. Teachers give students the opportunity to improve their ability to communicate effectively in new situations that they are likely to encounter in Spanish-speaking countries. While students learn language, they are simultaneously learning Spanish culture. Meets NCAA Core Course Requirements

2223 - Spanish III

Grade 8 – 9 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. The instruction in this course is oriented toward the development of students' more complete control of the communicative functions and structures addressed in previous levels. Students communicate meaning in realistic situations. Teachers embed student learning with multicultural patterns found in the Spanish language and cultural traditions. Students develop skills in the areas of listening, speaking, reading and writing the Spanish language. They also deepen their cultural understanding of the Spanish-speaking world. Meets NCAA Core Course Requirements.

2224 - Spanish IV

Grade 9 | Credits: 5

Spanish IV continues the practical use of language while expanding language skills. Videos, oral presentations and outside readings are a part of the course. Teachers review grammatical

principles in oral and written work and they provide opportunities for the development of a deeper understanding of the Spanish cultures. Meets NCAA Core Course Requirements.

2220 - Spanish IV H

Grade 9 | Credits: 5

This is a rigorous course designed for the serious student of Spanish. Spanish IV Honors differs from Spanish IV in that students study the language in greater depth. Videos, oral presentations and outside readings are a regular part of the course. Students complete special projects designed to increase and demonstrate their Spanish linguistic and cultural proficiency. Students who meet the prerequisites and who plan to take the Advanced Placement test in subsequent years are encouraged to consider this course. Meets NCAA Core Course Requirements.

French

2204 - French II

Grade 7, 8, 9 | Credits: 5

French II further develops the basic language skills with emphasis on communication in the language, thus enabling students to apply what they have learned. Students have the opportunity to continue in the progressive ability to communicate effectively in new situations that students will encounter in French-speaking countries. Study of French culture in language practice is part of every lesson. Meets NCAA Core Course Requirements.

2225 - French III

Grade 8, 9 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented toward the development of students' more complete control of the communicative functions and structures addressed in previous levels. Students communicate meaning in realistic situations and carry out functions with multicultural patterns found in the French language and cultural traditions. Skills in the areas of interpreting information, communicating interpersonally and presenting information as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

2229 - French IV

Grade 9 | Credits: 5

French IV continues the situational/practical use of language while expanding language skills. Videos, oral presentations and outside readings are a regular part of the course. Students review grammatical principles as they relate to oral and written work. Students have opportunities for

the development of a deeper understanding of the target culture. Meets NCAA Core Course Requirements.

2221 - French IV H

Grade 9 | Credits: 5

This is a vigorous course designed for the serious student of French. French IV H differs from French IV in that students study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students complete special projects designed to increase and demonstrate their French proficiency. Students who meet the prerequisites and who plan to take the Advanced Placement test in subsequent years are encouraged to consider this course. Meets NCAA Core Course Requirements.

German

2205 - German I

Grade 8-9 | Credits: 5

Open to all students, this course is activity-centered with emphasis on speaking and listening. German is in constant use in the classroom. Students build working vocabulary, including common idioms and phrases and begin to learn precision in the use of words and grammatical structures. Students also learn elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is German. Meets NCAA Core Course Requirements.

2234 - German II

Grade 7 | Credits: 5

German II further develops the basic language skills with emphasis on communication in the language thus enabling students to apply what they have learned. Teachers give students the opportunity to continue in the progressive ability to communicate effectively in the new situations that they will encounter in German-speaking countries. Study of German culture is part of language practice. Meets NCAA Core Course Requirements.

2226 - German III

Grades 8 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed earlier. Students communicate meaning in

realistic situations and use multicultural patterns found in the German language and traditions. Skills in the areas of listening, speaking, reading and writing the German language, as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

2237 - German IV H

Grades 9 | Credits: 5

German IV H provides students the opportunity to study the spoken and written language in greater depth. Videos, oral presentations and outside readings are a regular part of the course. Students complete special projects designed to increase and demonstrate their German proficiency. This course is for students who want to increase their language proficiency and continue their study of German culture. German IV H provides students the opportunity to study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced grammatical structures needed to discuss, comprehend and compose within context. Readings of works from German-speaking countries serve as a springboard for discussion and compositions. Students complete special projects designed to increase and demonstrate their German proficiency. Meets NCAA Core Course Requirements.

Italian

2235 - Italian II

Grade 7 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented towards the development of students' more complete control of the communicative functions and structures addressed in the previous levels. Students communicate meaning in realistic situations and carry out functions that teachers embed with multicultural patterns found in the Italian language and traditions. Skills in the areas of listening, speaking, reading and writing the Italian language, as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

2228 - Italian III

Grades 8 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented towards the development of students' more complete control of the communicative functions and structures addressed in the previous levels. Students communicate meaning in realistic situations and carry out functions that teachers embed with multicultural patterns found in the Italian language and traditions. Skills in the areas of listening,

speaking, reading and writing the Italian language, as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

2236 - Italian IV H

Grades 9 | Credits: 5

Readings, oral presentations and videos are a regular part of the Italian IV H course. It continues situational and practical use of language while expanding language skills. Students review and apply grammatical principles in oral and written work. Opportunity for the development of a deeper understanding of the target culture is part of every lesson. Meets NCAA Core Course Requirements.

Mandarin

2238 - Mandarin I

Grade 8 - 9 | Credits: 5

This course introduces students to Chinese culture and the basic skills in listening, speaking, reading, and writing in Simplified Mandarin. It is for students with no prior experience in the study and use of Mandarin. This course is activity-centered with emphasis on speaking and listening. Mandarin is in constant use in the classroom. Students build working vocabulary, including common idioms and phrases. In addition, the teacher introduces some areas of precision in the use of words and sentence structures. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is Mandarin. Meets NCAA Core Course Requirements.

2239 - Mandarin II

Grade 8-9 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin I or come with some prior speaking and listening comprehension and an ability to write or type strings of sentences using Chinese characters. This course emphasizes the improvement of listening, speaking, reading, and writing in Simplified Mandarin. Students pay special attention to the introduction of reading and writing of Chinese characters. Mandarin is the language used in the classroom. Students continue to improve their working vocabulary along with additional common idioms and phrases. The teachers emphasize precision in the use of more words and grammatical structures. A study of Chinese culture is an integral part of this course. Meets NCAA Core Course Requirements.

2240 - Mandarin III H

Grade 9 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin II or come with prior speaking and listening comprehension and an ability to write or type in paragraph-length using Chinese characters. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed in the previous levels. Simplified Mandarin is the language used in the classroom. Students communicate meaning in realistic situations and carry out functions that are necessary for multicultural patterns found in Chinese language and traditions. Meets NCAA Core Course Requirements.

2241 - Mandarin IV H

Grade 9 | Credits: 5

This is a rigorous course designed for the serious student of Mandarin. Videos, oral presentations and outside readings are a regular part of the course. Students complete special projects designed to increase and demonstrate their Mandarin linguistic and cultural proficiency. Students who meet the prerequisites and who plan to take the Advanced Placement test in subsequent years are encouraged to consider this course.

Churchill Junior High School

Elective Courses

English Electives

2020 - Creative Writing

Grades 8-9 | Credits: 2.5

This semester English elective course is designed for students who wish to develop their creative writing abilities through independent practice and frequent individual conferences with the instructor. This course trains students to express themselves through original poems, short stories, and essays, based upon their own experiences and sensory impressions. Students read and discuss literary models, as well as read and discuss one another's work. Students also have opportunities to publish their work both within and outside of the school context. Ideal candidates for this course are motivated, self-directed learners who are able to complete and submit tasks independently.

2020 - Creative Writing

Grades 8-9 | Credits: 2.5

This semester English elective course is designed for students who wish to develop their creative writing abilities through independent practice and frequent individual conferences with the instructor. This course trains students to express themselves through original poems, short stories, and essays, based upon their own experiences and sensory impressions. Students read and discuss literary models, as well as read and discuss one another's work. Students also have opportunities to publish their work both within and outside of the school context. Ideal candidates for this course are motivated, self-directed learners who are able to complete and submit tasks independently.

2013 - Heroes, Villains, and Mythology

Grade 9 | Credits: 2.5

Heroes, Villains, and Mythology is a semester English elective course for all students interested in exploring the social, artistic and philosophical implications of world mythology. Students will learn about the foundations of Greek and Roman myth and the ways in which these myths inform works such as Homer's Iliad and Virgil's Aeneid. Ultimately, students will examine myths from a variety of cultures in order to better understand the relevance of mythology to art as well as contemporary issues concerning justice, identity, family and war. Students will complete reading and writing assignments on a daily basis as well as engage in spirited class

discussions. All ninth graders are eligible to enroll in this elective. Meets NCAA Core Course Requirements.

Science Electives

2113 - Astronomy

Grade 9 | Credits: 2.5 | Semester Course

This is a course designed to give students a basic understanding of the structure of the universe, the structure and behavior of the objects that make up the universe and the earth's relationship to the other objects in our solar system. It includes a detailed study of the planets, the sun and the moon. Modern observational and measurement methods used by astronomers are investigated. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

Social Studies Electives

2465 - Exploring Technology in Society

Grade 8-9 | Credits: 2.5

Technology is integrated into all of our lives and, by extension, into virtually all industries and career paths. In this course, students will explore the economic, social, and political impacts of the increased integration of technology has had in our lives. In addition, students will gain real-world skills in evaluating educational and professional applications while exploring career paths in technology and customer service. Also, students will examine their understanding of the structure, best practices and ethics involved in working with technology in complex, diverse organizations.

Practical Arts Electives

Grade 7 Electives

2343 - STEM 7

STEM Elective is a course designed to introduce students to the designed world around them. While applying concepts related to Science, Technology, Engineering, and Math, they will learn to think critically, apply knowledge, and create through real-world design challenges. Students will participate in problem-solving projects in fields such as electricity and electronics, structural engineering and design, Computer Aided Design and Rapid Prototyping, and concepts in

transportation technology. Group work and as well as individual projects will be part of the curriculum, as will multiple project creations that they will be able to walk away with.

2408 - Computational Thinking

Grade 7 | Credits: 5

Computational Thinking is an introductory-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems work, explore their potential impacts and contribute to a computing culture that is collaborative and ethical.

2344 - Media Production Lab

Grade 7 | Credits: 5

In Media Production Lab, students will learn about creating, recording, and editing multiple forms of media that have become an ever-growing part of our everyday lives. Covering Photography, Video Production, Audio Recording, and editing, this class will introduce and immerse students in multiple forms of media and what goes into creating what they experience daily. The class will consist of multiple unit projects that cover a combination of the artistic and technical aspects of media production. Each student will walk away with creations that they will have collaborated on and can share over various platforms.

2463 - Computers in the Classroom

Grade 7/8 Required | Credits: 2.5

As engaged digital learners, students are able to acquire and apply content knowledge and skills through active exploration, interaction, and collaboration with others across the globe, challenging them to design the future. The Computer Literacy course, required for all eighth-grade students, provides hands-on laboratory experience through the use of modern operating systems and software applications.

Grade 8 Electives

Family and Consumer Science Electives

2360 - Creative Living I

Grade 8-9 | Credits: 2.5

Creative Living 1 is a semester-long course made up of hands-on real-life experiences over two marking periods. During one marking period, students will investigate the MyPlate Food Plan to

gain basic knowledge associated with food and nutrition. They will learn a variety of cooking techniques to develop life-long skills and knowledge. Participation in food preparation labs with their peers is an engaging way to learn! Topics of study include food safety and sanitation, kitchen safety, measuring techniques, mastering various kitchen tools, nutrition, and meal planning, lab procedures, and preparation techniques.

During the other marking period, students will learn both hand sewing and sewing machine techniques. As multiple projects are completed throughout this quarter, the students will learn how to sew and embroider several different hand stitches, attach different types of buttons, along with sewing machine stitching using computerized machines. Reading and following directions are skills learned that can be applied to all disciplines, which will enhance the students' 21st-century skills.

2361 - Creative Living II

Grade 8-9 | Credits: 2.5 | Prerequisite: Creative Living I

This class furthers the students' practical skills and foundation to support independent living presented in Creative Living I. In the foods unit, the focus is on the lessons and preparation of foods known in particular regions of the United States and then broadens their understanding and experience of foods found in certain areas around the world. The emphasis is on the use of various cooking methods (bake, broil, steam, wok, sauté, etc.) and tools (hand mixer, food processor, blender), in combination with personal nutrition and leavening agents, such as in the yeast-breads unit.

The sewing portion of Creative Living II extends the hand and sewing machine skills previously learned and developed through projects and activities in Creative Living I. The practical applications include zipper installation and other clothing construction/ repair techniques. All students will have the opportunity to personalize their work and express their creativity. Along the way, students will also be able to enhance their skills and knowledge in the use of iron and pressing techniques, clothing care and repair, and laundry procedures. The skill and knowledge gained will support the student to become a well-rounded adult.

2362 - Culinary Essentials

Grade 8-9 | Credits: 2.5 | Co/Prerequisite: Creative Living I

Culinary Essentials is a semester-long course that reinforces skills and knowledge gained from the Creative Living I course. Participating in the Culinary Essentials class will provide students with food preparation & cooking skills and techniques that they can apply to their daily lives. It is also a valuable resource to lay the foundation for those who wish to continue in the Culinary Arts program here in East Brunswick and beyond.

Through classroom demonstrations, various learning strategies, and hands-on laboratory experiences, the students will become proficient in culinary math, the use of standard cooking utensils and equipment, recipe terms, recipe completion skills, ingredient identification, ingredient purpose, and substitutions. Students will employ decision-making skills, time management, organization, and cooperation with group work. Units of study will include kitchen and food safety, recipe measurements and development, baking, fruits and vegetables, dips and sauces, microwave cookery, poultry, dairy, eggs, and desserts. The various hands-on laboratory practices will parallel classwork. This course also provides an overview of professionalism in the culinary industry and career opportunities.

Even if you don't want to be a chef, this is a great time to learn about the food world and become equipped with culinary skills!

2363 - Food Science and Nutrition

Grade 8-12 | Credits: 2.5

Students will be inspired and engaged in learning just how much science relates to the foods we eat every day. Throughout this one-semester course, the students' practical skills and knowledge will be enhanced by the use of cooperative and individual hands-on activities, visuals and manipulatives, and hands-on food labs in our kitchens. This course opens their eyes beyond eating food and explores the standard and scientific principles of science that affect the production, processing, preparation, utilization, and evaluation of food. The Food Science class presents the opportunity for students to become familiar with aspects of many food careers (food critics, chef work, marketing, baking, etc.) in addition to the laboratory experiences. The students will investigate population trends and influences in our lives and explore the vast-reaching importance of the study of Food Science to facilitate a safe, nutritious, varied, and affordable food supply for all.

2364 - Sew Much More!

Grade 8-9 | Credits: 2.5 |

SEW, you want to learn more? This course will present hands-on opportunities and explore the FUNDamentals of clothing construction, embroidery techniques, and fiber and fabric construction. Learn how to construct a garment using our computerized sewing machines and customize craft projects that are personal and/or seasonal. This might include embroidery, yarn work, hand sewing, and machine sewing. Students will study clothing detail and construction, basic sewing techniques, interpreting pattern symbols, pattern layout, and how to thread and sew on a sewing machine. Information presented in this class may lead students to Fashion or Interior Design classes at the high school or beyond. Creativity, motivation, and a desire to be SEW MUCH MORE is a must!

Engineering Electives

2340 - STEM I

Grades 8-9 | Credits: 2.5 | Semester Course

Are you interested in a fun, practical, hands-on course dealing with the technologies found in our world today? This course is designed to appeal to both males and females and will allow them to design and create solutions to various problems. This course will introduce students to the process of critical thinking as it relates to the technologies of today and will emphasize the application of knowledge, tools, and skills to solve practical problems. Students will be responsible for properly using the design loop to solve problems they encounter and, through this process, they will have a better understanding of how materials, manufacturing, design, electronic communications, robotics, and transportation systems take their place in our world. A strong emphasis will be placed on group dynamics and cooperation in problem-solving and will require the students to critically evaluate a problem they might find in today's society and, by working with each other, find an acceptable solution.

2342 - STEM II

Grades 8-9 | Credits: 2.5 | Prerequisite: STEM I

This course is designed to extend each student's ability to problem-solve, and each unit of study explores current advancements in STEM-related fields. Students will be responsible for using the design loop to solve problems they encounter; and through this process, they will have the ability to critically evaluate a problem they might find in today's society and by working with others, find an acceptable solution. We are a project-based classroom and students must be comfortable with working independently and in groups to complete in-class activities and projects.

2300 - Fundamentals of Engineering

Grades 8-9 | Credits: 2.5 | Semester Course

Fundamentals of Engineering is the introductory course in our series of engineering courses. This course is an introduction to the basics of graphic language. Communicating through technical drawings and sketches generated on the computer (CAD) are essential to many careers in business and industry. The areas of study covered include the use of freehand, mechanical, and computerized (CAD) instruments in developing drawings. Through the use of TLA's (Technology Learning Activities), the students will learn problem-solving and design techniques. The TLA's will include the use of the design loop, computers, and hands-on work.

2301 - Mechanical Engineering I

Grades 8-9 | Credits: 2.5 | Semester Course | Prerequisite: Fundamentals of Engineering (This prerequisite only applies to CJHS students)

Through the use of Technology Learning Activities (TLA's), the students will learn problem-solving and design techniques. The problems will include the use of the design loop, computers, and hands-on activities where students will identify a problem, produce a solution, and test the solution. Students will be given the opportunity to develop and construct a project in collaboration with electrical engineering students. This course is an introduction to the basics of graphic language. Communicating through drawings and sketches generated on the computer is essential to many careers in business and industry. The areas of study covered include freehand, mechanical, and computerized instruments in developing drawings. One, two, and three-view drawings are used to explain designs graphically. This course is also offered at EBHS (1302).

2341 - Introduction to Woodworking

Grades 8-9 | Credits: 2.5 | Semester Course

At some point in your life, you will own your own condo, apartment, or home. The skills you will learn from this course will provide you with the basics you will need to make common repairs or alterations to make it more comfortable. These skills may also help save you money normally spent on outside contractors. This course provides an overview of the various systems, materials, tools, and equipment used in manufacturing wood products found in the common home. Students have the opportunity to construct finely crafted projects that they are proud to display. Instruction includes information about the new technologies being used in the design, construction, and assembly of their projects as well as how to read and work from blueprints, estimate costs, utilize hand and power tools, and various wood finishes

Communications Technology Electives

2348 - Graphic Communications

Grades 8-9 | Credits: 2.5

This course provides hands-on experience in real-world applications in the communications field. Students will learn about the ways communication has changed over the years and they will complete projects in the areas of technical writing, graphic communication, desktop publishing, and technical design. Students will work in a collaborative setting to create a new company, design a logo, business card, and letterhead, and create advertisements as well as an advertising campaign. In addition to the company project, students will be designing their own t-shirts, vinyl decals, and notepads. Through various projects, students will use computer applications including Illustrator and In Design.

Computer Science and Literacy Electives

2462 - Computers in the Classroom

Grade 7/8 Required | Credits: 2.5

As engaged digital learners, students are able to acquire and apply content knowledge and skills through active exploration, interaction, and collaboration with others across the globe, challenging them to design the future. The Computer Literacy course, required for all eighth-grade students, provides hands-on laboratory experience through the use of modern operating systems and software applications.

2401 - Computer Keyboarding Applications

Grades 8-9 | Credits: 2.5

This course offers instruction in keyboarding for college (great for producing research papers), general or personal use and provides the foundation for future use of computers. Areas of instruction include mastery of the keyboard, knowledge of storage devices, correct keyboarding techniques, the arrangement of business and personal letters, outlining, tables, and setting up records.

Grade 9 Electives

Family and Consumer Science Electives

2360 - Creative Living I

Grade 8-9 | Credits: 2.5

Creative Living 1 is a semester-long course made up of hands-on real-life experiences over two marking periods. During one marking period, students will investigate the MyPlate Food Plan to gain basic knowledge associated with food and nutrition. They will learn a variety of cooking techniques to develop life-long skills and knowledge. Participation in food preparation labs with their peers is an engaging way to learn! Topics of study include food safety and sanitation, kitchen safety, measuring techniques, mastering various kitchen tools, nutrition, and meal planning, lab procedures, and preparation techniques.

During the other marking period, students will learn both hand sewing and sewing machine techniques. As multiple projects are completed throughout this quarter, the students will learn how to sew and embroider several different hand stitches, attach different types of buttons, along with sewing machine stitching using computerized machines. Reading and following directions are skills learned that can be applied to all disciplines, which will enhance the students' 21st-century skills.

2361 - Creative Living II

Grade 8-9 | Credits: 2.5 | Prerequisite: Creative Living I

This class furthers the students' practical skills and foundation to support independent living presented in Creative Living I. In the foods unit, the focus is on the lessons and preparation of foods known in particular regions of the United States and then broadens their understanding and experience of foods found in certain areas around the world. The emphasis is on the use of various cooking methods (bake, broil, steam, wok, sauté, etc.) and tools (hand mixer, food processor, blender), in combination with personal nutrition and leavening agents, such as in the yeast-breads unit.

The sewing portion of Creative Living II extends the hand and sewing machine skills previously learned and developed through projects and activities in Creative Living I. The practical applications include zipper installation and other clothing construction/ repair techniques. All students will have the opportunity to personalize their work and express their creativity. Along the way, students will also be able to enhance their skills and knowledge in the use of iron and pressing techniques, clothing care and repair, and laundry procedures. The skill and knowledge gained will support the student to become a well-rounded adult.

2362 - Culinary Essentials

Grade 8-9 | Credits: 2.5 | Co/Prerequisite: Creative Living I

Culinary Essentials is a semester-long course that reinforces skills and knowledge gained from the Creative Living I course. Participating in the Culinary Essentials class will provide students with food preparation & cooking skills and techniques that they can apply to their daily lives. It is also a valuable resource to lay the foundation for those who wish to continue in the Culinary Arts program here in East Brunswick and beyond.

Through classroom demonstrations, various learning strategies, and hands-on laboratory experiences, the students will become proficient in culinary math, the use of standard cooking utensils and equipment, recipe terms, recipe completion skills, ingredient identification, ingredient purpose, and substitutions. Students will employ decision-making skills, time management, organization, and cooperation with group work. Units of study will include kitchen and food safety, recipe measurements and development, baking, fruits and vegetables, dips and sauces, microwave cookery, poultry, dairy, eggs, and desserts. The various hands-on laboratory practices will parallel classwork. This course also provides an overview of professionalism in the culinary industry and career opportunities.

Even if you don't want to be a chef, this is a great time to learn about the food world and become equipped with culinary skills!

2363 - Food Science and Nutrition

Grade 8-12 | Credits: 2.5

Students will be inspired and engaged in learning just how much science relates to the foods we eat every day. Throughout this one-semester course, the students' practical skills and knowledge will be enhanced by the use of cooperative and individual hands-on activities, visuals and manipulatives, and hands-on food labs in our kitchens. This course opens their eyes beyond eating food and explores the standard and scientific principles of science that affect the production, processing, preparation, utilization, and evaluation of food. The Food Science class presents the opportunity for students to become familiar with aspects of many food careers (food critics, chef work, marketing, baking, etc.) in addition to the laboratory experiences. The students will investigate population trends and influences in our lives and explore the vast-reaching importance of the study of Food Science to facilitate a safe, nutritious, varied, and affordable food supply for all.

2364 - Sew Much More!

Grade 8-9 | Credits: 2.5 |

SEW, you want to learn more? This course will present hands-on opportunities and explore the FUNdamentals of clothing construction, embroidery techniques, and fiber and fabric construction. Learn how to construct a garment using our computerized sewing machines and customize craft projects that are personal and/or seasonal. This might include embroidery, yarn work, hand sewing, and machine sewing. Students will study clothing detail and construction, basic sewing techniques, interpreting pattern symbols, pattern layout, and how to thread and sew on a sewing machine. Information presented in this class may lead students to Fashion or Interior Design classes at the high school or beyond. Creativity, motivation, and a desire to be SEW MUCH MORE is a must!

Engineering Electives**2340 - STEM I**

Grades 8-9 | Credits: 2.5

Are you interested in a fun, practical, hands-on course dealing with the technologies found in our world today? This course is designed to appeal to both males and females and will allow them to design and create solutions to various problems. This course will introduce students to the process of critical thinking as it relates to the technologies of today and will emphasize the application of knowledge, tools, and skills to solve practical problems. Students will be responsible for properly using the design loop to solve problems they encounter and, through this process, they will have a better understanding of how materials, manufacturing, design, electronic communications, robotics, and transportation systems take their place in our world. A

strong emphasis will be placed on group dynamics and cooperation in problem-solving and will require the students to critically evaluate a problem they might find in today's society and, by working with each other, find an acceptable solution.

2342 - STEM II

Grades 8-9 | Credits: 2.5 | Prerequisite: STEM I

This course is designed to extend each student's ability to problem-solve, and each unit of study explores current advancements in STEM-related fields. Students will be responsible for using the design loop to solve problems they encounter; and through this process, they will have the ability to critically evaluate a problem they might find in today's society and by working with others, find an acceptable solution. We are a project-based classroom and students must be comfortable with working independently and in groups to complete in-class activities and projects.

2300 - Fundamentals of Engineering

Grades 8-9 | Credits: 2.5

Fundamentals of Engineering is the introductory course in our series of engineering courses. This course is an introduction to the basics of graphic language. Communicating through technical drawings and sketches generated on the computer (CAD) is essential to many careers in business and industry. The areas of study covered include the use of freehand, mechanical, and computerized (CAD) instruments in developing drawings. Through the use of TLA's (Technology Learning Activities), the students will learn problem-solving and design techniques. The TLA's will include the use of the design loop, computers, and hands-on work.

2301 - Mechanical Engineering I

Grades 8-9 | Credits: 2.5 | Prerequisite: Fundamentals of Engineering (This prerequisite only applies to CJHS students)

Through the use of Technology Learning Activities (TLA's), the students will learn problem-solving and design techniques. The problems will include the use of the design loop, computers, and hands-on activities where students will identify a problem, produce a solution, and test the solution. Students will be given the opportunity to develop and construct a project in collaboration with electrical engineering students. This course is an introduction to the basics of graphic language. Communicating through drawings and sketches generated on the computer is essential to many careers in business and industry. The areas of study covered include freehand, mechanical, and computerized instruments in developing drawings. One, two, and three-view drawings are used to explain designs graphically. This course is also offered at EBHS (1302).

2341 - Introduction to Woodworking

Grades 8-9 | Credits: 2.5

At some point in your life, you will own your own condo, apartment, or home. The skills you will learn from this course will provide you with the basics you will need to make common repairs or alterations to make it more comfortable. These skills may also help save you money normally spent on outside contractors. This course provides an overview of the various systems, materials, tools, and equipment used in manufacturing wood products found in the common home. Students have the opportunity to construct finely crafted projects that they are proud to display. Instruction includes information about the new technologies being used in the design, construction, and assembly of their projects as well as how to read and work from blueprints, estimate costs, utilize hand and power tools, and various wood finishes.

Communications Technology Electives

2348 - Graphic Communications

Grades 8-9 | Credits: 2.5 | Semester Course

This course provides hands-on experience in real-world applications in the communications field. Students will learn about the ways communication has changed over the years and they will complete projects in the areas of technical writing, graphic communication, desktop publishing, and technical design. Students will work in a collaborative setting to create a new company, design a logo, business card, and letterhead, and create advertisements as well as an advertising campaign. In addition to the company project, students will be designing their own t-shirts, vinyl decals, and notepads. Through various projects, students will use computer applications including Illustrator and In Design.

Business Education Electives

2406 - Introduction to Business

Grade 9 | Credits: 2.5 | Semester Course

Introduction to Business is a half-year course designed to introduce the student to the environment of business today. Students will examine the world of business and how it can and does affect their lives. Ethical and social responsibility issues will be discussed, as well as the increasing importance of international (global) business. The course is designed to be an introduction to the business electives offered at the high school level. It incorporates marketing, accounting, economics, business ownership/entrepreneurship, management/organization, human resources, finance, investment, and legal aspects of the business environment. This course is also offered at EBHS (1401).

2405 - Financial Literacy

Grade 9 | Credits: 2.5 | Semester Course | Graduation requirement; This course is offered as an online course – See your counselor for details.

Every student needs to master their finances now, and for the rest of their lives. Our Financial Literacy course addresses the need for all students to know how to earn, save, and manage their money. Through engaging, student-centered activities and projects that require 21st-century skills, our students will master career exploration, money management, credit, saving and investing skills. They will also dive into the world of informed purchasing, civic financial responsibility and risk management.

Our Online Financial Literacy course was developed by East Brunswick Teachers and is taught by East Brunswick Teachers. The course covers the same core concepts as the traditional class and the class is taught exclusively online. This class is perfect for highly motivated students who like to work independently and possess strong time management and written communication skills. The assignments and projects are continuously being updated to enhance the online environment. Students enrolled in Online Financial Literacy will be able to take an additional 2.5 credit during the year. This course is also available at EBHS (1412).

2404 - Accounting I

Grade 9 | Credits: 2.5 | Semester Course

The field of accounting is for individuals looking for an exciting career; one that offers high earning potential, travel throughout the USA and abroad, and the opportunity to advance in many careers. Accounting I will introduce students to the accounting cycle, which will serve as a sound background for employment in both the private sector and government entities, owning your own business, and preparation for studying business/commerce courses at college and ultimately in graduate school. Students will be introduced to the computerized accounting cycle stressing general ledger skills needed for producing financial statements for both a single proprietorship and a partnership. This course is also available at EBHS (1404).

Computer Science and Literacy Electives

2401 - Computer Keyboarding Applications

Grades 8-9 | Credits: 2.5 | Semester Course

This course offers instruction in keyboarding for college (great for producing research papers), general or personal use and provides the foundation for future use of computers. Areas of instruction include mastery of the keyboard, knowledge of storage devices, correct keyboarding techniques, the arrangement of business and personal letters, outlining, tables, and setting up records.

2464 - Introduction to Computer Science

Grade 9 | Credits: 2.5 | Semester Course | Prerequisite: Passed Algebra 1

This is a Java programming intensive course. The Introduction to Computer Science course is a one-semester, introductory programming course and lays the foundation for future work in computer science. Students taking the course are required to have taken a prerequisite math course of at least Algebra I A. The course focuses on using a programming language to solve problems. Students will be introduced to an object-oriented programming language. They will design and develop programs to be run and tested on the computer. The course introduces students to interactive input and output methods, file input and output, control structures for selection and iteration, assignment statements, and math operators. Students are also introduced to Java data types including basic primitive types (int, long, double, char, Boolean) as well as standard classes (string, math, etc.). Students are required to take tests and write between 30 and 50 independent programming assignments in the semester. This course is also available at EBHS (1450).

Visual Arts Electives

Grade 7 Electives

2261 - Art Exploration

Grade 7 | Credits: 2.5

Art Exploration is the art elective course offered to seventh grade students. Art Exploration provides students with an opportunity to experience in greater depth the many varied methods and materials of art media. Exploration and development of line, color, form, texture and space in both 2-dimensional and 3-dimensional projects help to develop individual growth and personal expression. The program consists of projects in drawing, painting, 3 dimensional design, printmaking and graphic design.

Grade 8-9 Electives

2264 - Ceramics Exploration

Grades 8-9 | Credits: 2.5

This course is designed to be an introduction to ceramics as a sculptural medium. Students will learn about the history of ceramics and pottery as well as related vocabulary. Attention will be focused on basic hand-building techniques as well as glaze and underglaze finishes.

2260 - Three-Dimensional Art and Design

Grades 8-9 | Credits: 2.5

This course is designed to be an introduction into the three-dimensional art world, working with both additive and subtractive techniques to explore various materials and mediums of production. Students will investigate problem solving techniques to create both representational and more abstract art forms while producing aesthetically pleasing 3-D structures such as kaleidocycles, geodomes, mobiles, and origami. Materials that may be explored, but are not limited to include paper, cardboard, wire, foam core, Styrofoam and Paper Mache.

2262 - Drawing Exploration

Grades 8-9 | Credits: 2.5

Basic materials, techniques, and processes employed in drawing are introduced. The proper use of drawing media and composition is emphasized to develop technical skills. Drawing is a skill and this course introduces students to the basic concepts that develop this skill. Students are taught to see their environment through observational studies and represent it in their own artistic manner. Drawing pencils, pen & ink, charcoal, colored pencils, ink wash, and pastels are used. Techniques such as light and shade, perspective rendering, line usage, texture, pattern, cross hatching, and stipple are explored.

2263 - Drawing And Painting

Grades 8-9 | Credits: 2.5 | Prerequisite of B or better in Drawing Exploration

The proper use of drawing and painting media is emphasized to develop technical skills. This course utilizes skills and techniques developed in the Drawing Exploration course to explore in more depth the artistic uses for wet and dry media. Students are taught to see their environment through observational studies and use these to represent it in their own artistic manner. Students will be responsible for maintaining a sketchbook as a means for gathering ideas and planning projects to develop growth in their skills and work. Drawing pencils, watercolor, acrylic paint, ink wash, and pastels are used. Techniques such as light and shade, perspective rendering, line usage, and color theory are explored.

2265 - Introduction to Ceramics

Grade 9 | Credits: 2.5 | Prerequisite of B or better in Ceramics Exploration

This is a limited offering class for students meeting the prerequisite. Students learn basic hand-building techniques for forming clay and treating clay surfaces, including ceramic staining and glazing. Throwing techniques on the potter's wheel will be demonstrated. This course serves as a prerequisite to High School Ceramics Workshop.

2266 - Introduction to Digital Photography

Grades 8-9 | Credits: 2.5 | No Prerequisite

The course introduces the basic principles of digital photography and photographic composition. Composing images when taking pictures is emphasized. Students use computer applications such as the Adobe Creative Suite to edit, adjust and finalize photographic images. Cameras are supplied for basic assignments.

2270 - Intro to Digital Graphic Arts & Design

Grade 8-9 | Credits: 2.5

Students explore the world of Graphic Design and Digital Art through projects that emphasize Visual Communications. Basic to advanced activities, along with the layout principles are introduced and explored through the newest version of Creative Cloud Adobe Illustrator and Photoshop. The course highlights the importance of visually exploring and discussing the creative process through skill development and critique. Coursework is 100% computer based on Macintosh computers. Projects may include, but are not limited to layout and lettering design, black & white ornamental designs, personal logo and skateboard designs, album covers, stamp design, PSA posters, and the Bio Poem collage. A grade of A or higher in this course serves as a prerequisite to Digital Graphics Art and Design Workshop at EBHS.

Performing Arts Electives

Grade 7 Electives

2534 - World of Digital Music

Grade 7 | Credits: 2.5

This course is open to musically trained students and beginners alike. Students explore basic elements of music: rhythm, melody, form, style, etc. through the use of the school's MIDI. (Musical Instrument Digital Interface) Lab. A wide variety of musical styles are examined including classical, jazz, popular, folk, and musical theater. Course expectations include participation in music performance, composition, and arranging. Assignments of music listening and critique are also components of this course.

2524 - World of Theatre

Grade 7 | Credits: 2.5

Developing speaking skills, personal presentation skills, self-confidence and strategies for memorization are the results of such a course. Emphasis will be placed on development and increased understanding of performance skill. Students will utilize acting techniques and

terminology, solo and group performances, improvisational exercises, monologue study and critique to enhance personal performance.

2547 - Beginning Piano

Grade 7 | Credits: 2.5

This course introduces the fundamentals of playing any keyboard instrument. A music technology lab equipped with MIDI keyboards, computers and headsets will be used to learn to read and play music in the treble and bass clef using two hands. It is recommended that students have access to an instrument at home or outside of school. This course is intended for students that have no prior piano experience.

2501 - Chorus

Grade 7 | Credits: 5

Chorus at the Junior High School is a full-year elective that develops the interest of the student who enjoys singing using a widely varied repertoire of grade appropriate music. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theater songs, spirituals and selections from world choral music. Students learn basic choral techniques: breathing, intonation, score reading, articulation, and diction. Basic concepts of theory, sight-singing with solfege, and ear-training are further developed. The Churchill Chorus prepares and performs one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

Related Courses:

2502 - Chorus (S)

Grade 7 | Credits: 2.5

A semester option exists only for students with schedule conflicts on a limited availability basis.

2505 - Honors Chamber Choir

Grades 7-8-9 | Credits: 5

Honors Chamber Choir is an honors-level course open to a limited number of singers through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform choral repertoire of greater difficulty written for three or four parts. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theatre songs, spirituals and selections from world choral music. Students learn increasingly advanced choral techniques: breathing, intonation, score reading, articulation, and diction. More advanced concepts of theory, sight-singing with solfege, and ear-training are further developed. Students are encouraged to audition for Region Choral groups. The Churchill Choral Groups

prepare and perform one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

2510 - Concert Band Grades 7-8 Brass/Woodwind

Grades 7-8 | Credits: 5

This section is designed for students with prior experience playing a brass or woodwind instrument. These courses are similar to previous band classes, with more in-depth study included and more advanced literature performed. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required to complete assigned scales, etudes, technical studies, and performance literature successfully. Band students must attend extra after school and evening rehearsals and public performances. Qualified students are encouraged to audition for Region Band. There is a prerequisite of prior participation in the band program or a minimum six months of study with a private teacher (documentation required). New students must complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are oboe, bassoon, french horn, trombone, baritone horn, or tuba. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2530 - Concert Band Grade 7 Percussion

Grades 7 | Credits: 5

Concert Band (Percussion) is open to any student playing a percussion instrument. Students study and perform standard literature written or transcribed for concert band and percussion ensemble. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2508 - Honors Wind Ensemble

Grade 7-8-9 | Credits: 5

Wind Ensemble is an honors-level course open to a limited number of wind players and percussionists through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for wind band. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are highly encouraged to audition for Region Band. Due to the definition of a Wind Ensemble, placement is limited and based

upon the need for a balance of instrumentation. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Concert Band.

2511 - Orchestra Grades 7-8

Grades 7-8 | Credits: 5

This course is similar to the sixth grade orchestra, except more in depth study is included and more advanced orchestral literature is performed. Students learn orchestral bowings, applications and technique. Qualified eighth graders are encouraged to audition for the CJMEA Intermediate Region Orchestra. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required and is monitored by the instructor via the assigning of etudes and technical studies. Orchestra students must attend extra after school rehearsals, group lessons and public performances. There is a prerequisite of prior participation in the orchestra program or a minimum of six months to a year of private study (documentation required). New students will complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are cello, viola, and string bass.

2521 - Honors Select Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Select Orchestra is a full year honors level course open to a limited number of 8th & 9th grade string players (violin, viola, cello and bass) accepted through an audition process. Audition requirements may be obtained through the Music Department. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students will increase their technical proficiency on their instrument. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are encouraged to audition for Intermediate or HS Region and Intermediate or HS All-State Orchestra. Students not able to audition must complete an alternative performance experience of comparable difficulty. Instrumentation is limited and based upon the need for balance between violins, violas, cellos and basses.

2522 - Honors Advanced Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Advanced Orchestra is an honors-level course open to a limited number of string players through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for string orchestra. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are expected to audition for

Region Orchestra. Students not able to audition must complete an alternative performance experience. Due to the definition of the Advanced Orchestra, instrumentation is limited and based upon the need for a balance between violins, violas, celli, and basses.

Grade 8 Electives

2515 - Theater Arts and Communication

Grades 8-9 | Credits: 2.5

Whether you are on your way to Broadway or the board room of a corporation, everyone needs practice in communicating who they are and what they want in a way that is inspiring and engaging. This class will help students improve in the art of public speaking, dealing with "on your feet" problem solving, thinking creatively, and getting rid of stage fright, giving students the collaborative life skills needed in today's workforce. Class activities include, but are not limited to writing scenes and performing them, designing sets and costumes, and practicing improvisation and other practical theatrical skills.

2273 - Filmmaking

Grades 8-9 | Credits: 2.5 (Prerequisite- Completion of Theater Arts and Communication 2515)

This course offers a more advanced theater experience that builds upon the skills learned in Theater Arts and Communication. We live in a digital age and students today are in tune with popular videos on YouTube, Netflix, Amazon, etc. They are already thinking like filmmakers. This semester course will give students further hands-on experience working with professional video equipment and creating films utilizing some of the same processes as Hollywood filmmakers. Students will practice storyboarding, directing, acting, lighting, screenwriting and cinematography. Each student will work in a film team to design and create a public service announcement, a silent film, a thriller and a comedy movie.

2514 - The World of Digital Music

Grades 8-9 | Credits: 2.5

This course is open to musically trained students and beginners alike. Students explore basic elements of music: rhythm, melody, form, style, etc. through the use of the school's MIDI. (Musical Instrument Digital Interface) Lab. A wide variety of musical styles are examined including classical, jazz, popular, folk, and musical theater. Course expectations include participation in music performance, composition, and arranging. Assignments of music listening and critique are also components of this course.

2543 - Beginning Piano Grades 8-9

Grades 8-9 | Credits: 2.5

This course introduces the fundamentals of playing any keyboard instrument. A music technology lab equipped with MIDI keyboards, computers and headsets will be used to learn to read and play music in the treble and bass clef using two hands. It is recommended that students have access to an instrument at home or outside of school. This course is intended for students that have no prior piano experience.

2545 - Piano Lab

Grades 8-9 | Credits: 2.5 | Prerequisite: B or higher within previous year in Beginning Piano or Teacher Recommendation

This course will provide an opportunity for students who have completed Beginning Piano to continue their development as keyboard musicians. In addition, by allowing course admission by audition, this course can provide an appropriate placement for students who have acquired some level of piano proficiency through private lessons. It is recommended that students have access to an instrument at home or outside of school for independent practice.

2513 - Chorus Grades 8-9

Grades 8-9 | Credits: 5

Chorus at the Junior High School is a full-year elective that develops the interest of the student who enjoys singing using a widely varied repertoire of grade appropriate music. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theater songs, spirituals and selections from world choral music. Students learn basic choral technique: breathing, intonation, score reading, articulation, and diction. Basic concepts of theory, sight-singing with solfege, and ear-training are further developed. The Churchill Chorus prepares and performs one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

Related Course:

2512 - Chorus Grades 8-9 Semester

Grades 8-9 | Credits: 2.5 | Semester option for students with schedule conflicts on a limited availability basis

2505 - Honors Chamber Choir

Grades 7-8-9 | Credits: 5

Honors Chamber Choir is an honors-level course open to a limited number of singers through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform choral repertoire of greater difficulty written for three or four parts. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theatre songs, spirituals and selections from world choral music. Students learn increasingly advanced choral techniques: breathing, intonation, score reading, articulation, and diction. More advanced concepts of theory, sight-singing with solfege, and ear-training are further developed. Students are encouraged to audition for Region Choral groups. The Churchill Choral Groups prepare and perform one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

2510 - Concert Band Grades 7-8 Brass/Woodwind

Grades 7-8 | Credits: 5

This section is designed for students with prior experience playing a brass or woodwind instrument. These courses are similar to previous band classes, with more in-depth study included and more advanced literature performed. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required to complete assigned scales, etudes, technical studies, and performance literature successfully. Band students must attend extra after school and evening rehearsals and public performances. Qualified students are encouraged to audition for Region Band. There is a prerequisite of prior participation in the band program or a minimum six months of study with a private teacher (documentation required). New students must complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are oboe, bassoon, french horn, trombone, baritone horn, or tuba. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2517 - Concert Band Grades 8-9 Percussion

Grades 8-9 | Credits: 5

Concert Band (Percussion) is open to any student playing a percussion instrument. Students study and perform standard literature written or transcribed for concert band and percussion ensemble. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2508 - Honors Wind Ensemble

Grade 7-8-9 | Credits: 5

Wind Ensemble is an honors-level course open to a limited number of wind players and percussionists through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for wind band. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are highly encouraged to audition for Region Band. Due to the definition of a Wind Ensemble, placement is limited and based upon the need for a balance of instrumentation. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Concert Band.

2511 - Orchestra Grades 7-8

Grades 7-8 | Credits: 5

This course is similar to the sixth grade orchestra, except more in depth study is included and more advanced orchestral literature is performed. Students learn orchestral bowings, applications and technique. Qualified eighth graders are encouraged to audition for the CJMEA Intermediate Region Orchestra. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required and is monitored by the instructor via the assigning of etudes and technical studies. Orchestra students must attend extra after school rehearsals, group lessons and public performances. There is a prerequisite of prior participation in the orchestra program or a minimum of six months to a year of private study (documentation required). New students will complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are cello, viola, and string bass.

2521 - Honors Select Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Select Orchestra is a full year honors level course open to a limited number of 8th & 9th grade string players (violin, viola, cello and bass) accepted through an audition process. Audition requirements may be obtained through the Music Department. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students will increase their technical proficiency on their instrument. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are encouraged to audition for Intermediate or HS Region and Intermediate or HS All-State Orchestra. Students not able to audition must complete an alternative performance experience of comparable difficulty. Instrumentation is limited and based upon the need for balance between violins, violas, cellos and basses.

2522 - Honors Advanced Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Advanced Orchestra is an honors-level course open to a limited number of string players through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for string orchestra. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are expected to audition for Region Orchestra. Students not able to audition must complete an alternative performance experience. Due to the definition of the Advanced Orchestra, instrumentation is limited and based upon the need for a balance between violins, violas, celli, and basses.

Grade 9 Electives

2515 - Theater Arts and Communication

Grades 8-9 | Credits: 2.5

Whether you are on your way to Broadway or the board room of a corporation, everyone needs practice in communicating who they are and what they want in a way that is inspiring and engaging. This class will help students improve in the art of public speaking, dealing with "on your feet" problem solving, thinking creatively, and getting rid of stage fright, giving students the collaborative life skills needed in today's workforce. Class activities include, but are not limited to writing scenes and performing them, designing sets and costumes, and practicing improvisation and other practical theatrical skills.

2273 - Filmmaking

Grades 8-9 | Credits: 2.5 (Prerequisite- Completion of Theater Arts and Communication 2515)

This course offers a more advanced theater experience that builds upon the skills learned in Theater Arts and Communication. We live in a digital age and students today are in tune with popular videos on YouTube, Netflix, Amazon, etc. They are already thinking like filmmakers. This semester course will give students further hands-on experience working with professional video equipment and creating films utilizing some of the same processes as Hollywood filmmakers. Students will practice storyboarding, directing, acting, lighting, screenwriting and cinematography. Each student will work in a film team to design and create a public service announcement, a silent film, a thriller and a comedy movie.

2543 - Beginning Piano Grades 8-9

Grades 8-9 | Credits: 2.5

This course introduces the fundamentals of playing any keyboard instrument. A music technology lab equipped with MIDI keyboards, computers and headsets will be used to learn to read and play music in the treble and bass clef using two hands. It is recommended that students have access to an instrument at home or outside of school. This course is intended for students that have no prior piano experience.

2545 - Piano Lab

Grades 8-9 | Credits: 2.5 | Prerequisite: B or higher within previous year in Beginning Piano or Teacher Recommendation

This course will provide an opportunity for students who have completed Beginning Piano to continue their development as keyboard musicians. In addition, by allowing course admission by audition, this course can provide an appropriate placement for students who have acquired some level of piano proficiency through private lessons. It is recommended that students have access to an instrument at home or outside of school for independent practice.

2514 - The World of Digital Music

Grades 8-9 | Credits: 2.5

This course is open to musically trained students and beginners alike. Students explore basic elements of music: rhythm, melody, form, style, etc. through the use of the school's MIDI. (Musical Instrument Digital Interface) Lab. A wide variety of musical styles are examined including classical, jazz, popular, folk, and musical theater. Course expectations include participation in music performance, composition, and arranging. Assignments of music listening and critique are also components of this course.

2513 - Chorus Grades 8-9

Grades 8-9 | Credits: 5

Chorus at the Junior High School is a full-year elective that develops the interest of the student who enjoys singing using a widely varied repertoire of grade appropriate music. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theater songs, spirituals and selections from world choral music. Students learn basic choral technique: breathing, intonation, score reading, articulation, and diction. Basic concepts of theory, sight-singing with solfege, and ear-training are further developed. The Churchill Chorus prepares and performs one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

Related Course:

2512 - Chorus Grades 8-9 Semester

Grades 8-9 | Credits: 2.5 | Semester option for students with schedule conflicts on a limited availability basis

2505 - Honors Chamber Choir

Grades 7-8-9 | Credits: 5

Honors Chamber Choir is an honors-level course open to a limited number of singers through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform choral repertoire of greater difficulty written for three or four parts. Pieces may include classical selections, festival literature, folk arrangements, popular music, musical theatre songs, spirituals and selections from world choral music. Students learn increasingly advanced choral techniques: breathing, intonation, score reading, articulation, and diction. More advanced concepts of theory, sight-singing with solfege, and ear-training are further developed. Students are encouraged to audition for Region Choral groups. The Churchill Choral Groups prepare and perform one concert each semester. Small ensembles, duets, and solos may be performed in the rehearsal setting to add to the performing experience. Attendance at all rehearsals and formal concerts is required.

2517 - Concert Band Grades 8-9 Percussion

Grades 8-9 | Credits: 5

Concert Band (Percussion) is open to any student playing a percussion instrument. Students study and perform standard literature written or transcribed for concert band and percussion ensemble. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2508 - Honors Wind Ensemble

Grade 7-8-9 | Credits: 5

Wind Ensemble is an honors-level course open to a limited number of wind players and percussionists through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for wind band. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are highly encouraged to audition for Region Band. Due to the definition of a Wind Ensemble, placement is limited and based upon

the need for a balance of instrumentation. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Concert Band.

2509 - Freshman Band Brass/Woodwind

Grades 9 | Credits: 5

This section is designed for students with prior experience playing a brass or woodwind instrument. These courses are similar to previous band classes, with more in-depth study included and more advanced literature performed. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required to complete assigned scales, etudes, technical studies, and performance literature successfully. Band students must attend extra after school and evening rehearsals and public performances. Qualified students are encouraged to audition for Region Band. There is a prerequisite of prior participation in the band program or a minimum six months of study with a private teacher (documentation required). New students must complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are oboe, bassoon, french horn, trombone, baritone horn, or tuba. Churchill students who wish to participate in the high school marching band must maintain enrollment in this course or the Wind Ensemble.

2521 - Honors Select Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Select Orchestra is a full year honors level course open to a limited number of 8th & 9th grade string players (violin, viola, cello and bass) accepted through an audition process. Audition requirements may be obtained through the Music Department. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students will increase their technical proficiency on their instrument. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are encouraged to audition for Intermediate or HS Region and Intermediate or HS All-State Orchestra. Students not able to audition must complete an alternative performance experience of comparable difficulty. Instrumentation is limited and based upon the need for balance between violins, violas, cellos and basses.

2522 - Honors Advanced Orchestra

Grades 7-8-9 | Credits: 5 | Prerequisite: Successful completion of an audition

Advanced Orchestra is an honors-level course open to a limited number of string players through an audition process. Audition requirements may be obtained from the Music Department. Students study and perform music of greater difficulty written for string orchestra. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their

technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are expected to audition for Region Orchestra. Students not able to audition must complete an alternative performance experience. Due to the definition of the Advanced Orchestra, instrumentation is limited and based upon the need for a balance between violins, violas, celli, and basses.

2503 - Freshman Orchestra

Grade 9 | Credits: 5

This course is similar to the grades 7/8 orchestra, except more in depth study is included and more advanced orchestral literature is performed. Students learn orchestral bowings, applications and technique. Qualified ninth graders are eligible to audition for the CJMEA Senior Region Orchestra. Group lessons are part of the course requirement and are offered on a rotating schedule. Daily home practice is required and is monitored by the instructor via the assigning of etudes and technical studies. Orchestra students must attend extra after school rehearsals, group lessons and public performances. There is a prerequisite of prior participation in the orchestra program or a minimum of six months to a year of private study (documentation required). New students will complete an informal audition with the director to determine eligibility before enrolling. Instruments that students are encouraged to begin are cello, viola, and string bass.

East Brunswick High School

Course Catalog

Performing Arts Courses

Theatre Arts Courses

XXXX - Partner Film and Acting

Grades 10-11-12 | Credits: 2/5

Partner Film and Acting is designed with an inclusion model in mind. Peer models will work together with classified students receiving specialized programming through a curriculum designed to cultivate and promote student leadership, peer mentoring, collaboration and creativity. The focus of this class will be to provide students with a variety of creative experiences in film and acting appreciation. Peer assisted learning will be used to cultivate partner relationships. Students interested in being placed in the course as a peer model will complete an application and be selected to participate in the course. Approximately two students per semester will be selected for placement.

Related Course:

XXXX - Partner Art

Available in the Visual Arts catalog.

1546 - Singing for Musical Theater

Grades 10-12 | Credits: 2.5

Singing for Musical Theater is a semester course to allow personal instruction in both solo and ensemble singing for musical theater. Vocal technique, staging, and characterization will be stressed using repertoire from the Musical Theater genre.

1282 - Mask and Movement

Grades 10-12 | Credits: 2.5

This course provides an opportunity for students to explore characterization/acting through bodywork. Students will explore different types and styles of movement, characterization through body acting including unarmed stage combat, movement theory, and isolating body acting through mask work. This work will be applied to projects and scenes, and in so doing,

students will learn how to transfer these theories and their own impulses to the stage for effective performances.

1255 - Acting Studio

Grades 10-12 | Credits: 2.5

Acting Studio provides students with a rich scope of theater experiences. Students will experience various aspects of theater production: acting, scene study, and character examination. Students must be willing to perform monologues, scenes, and improvisations in front of the class. A fun way to explore theater and see if more advanced/intense classes are necessary.

1264 - Acting Studio II

Grades 10-12 | Credits: 2.5 | Prerequisite: Acting Studio

This course allows students to refine their acting skills through intensive studies of scenes and monologues. Students will develop a richer understanding of theater history, from Ancient Greece to modern day through performance of repertoire from various time periods. Audition techniques and acting for film and television will also be explored.

1279 - Acting Studio III Honors

Grades 11-12 | Credits: 2.5 | Prerequisite: Acting Studio II

This course will provide an opportunity for students who have completed Acting Studio II to hone their acting skills, and explore higher level acting work with peers. Students will explore advanced acting concepts and apply them to scene work, and real world situations such as auditioning for college or professional shows. Also covered is the application of techniques gleaned through the study of such theorists as Michael Chekov, Jeremy Whalen, and Sanford Meisner. Students will finish with a 10-15-minute solo show, performed for an audience.

Music Theory Courses

1549 - Digital Music Studio

Grades 10-12 | Credits: 2.5

This course is open to any student with a love for music but has no formal training. Students will explore music arranging, mixing, sampling, and live performance using computers, keyboards, drum pads, and other devices. This course will feature solo and collaborative music production, and students will finish the course with a portfolio of 5-8 finished tracks.

1548 - Advanced Music Studio

Grades 10-12 | Credits: 2.5 | Prerequisite: Digital Music Studio or Demonstration of Music Reading Skills/Faculty Recommendation

Advanced Music Studio is designed for students who want to learn more advanced composing and recording techniques. Students will use computers, MIDI keyboards and other instruments to create new songs and song arrangements in a wide variety of musical styles. Music and audio software will allow students to compose, record, and edit music and to create original recordings. This class will also focus on composing and arranging music for live performers, recording and editing live and digital performances, and creating music to sync with video.

1542 - Musicianship

Grades 10-12 | Credits: 2.5

This course is open to any student wishing to learn the fundamentals of music. Areas of study will include note reading, scales, rhythm, chord structure, and key signatures. Music from all periods and styles will also be explored. This course is recommended for students planning to take AP Music.

1503 - AP Music

Grades 10-12 | Credits: 5 | Prerequisite: Successful completion of 1542 Musicianship (or placement test) and recommendation of the AP Music Teacher.

This course is designed specifically for the serious music student, offering an in-depth study of all the elements of music theory including harmony and counterpoint. A portion of the course is devoted to listening to music in order to understand how the elements combine to create a total composition. Students will gain greater skill in music analysis, sight-singing and music dictation. Independent music performance, composition, research and attending live concerts are encouraged.

Music Performance and Ensemble Courses

1543 - Beginning Piano

Grades 10-12 | 2.5

This course introduces the fundamentals of playing any keyboard instrument. A music technology lab equipped with MIDI keyboards, computers and headsets will be used to learn to read and play music in the treble and bass clef using two hands. It is recommended that students have access to an instrument at home or outside of school.

1283 - Piano Workshop

Grades 10-12 | 2.5 | Prerequisite: B or higher in Beginning Piano within the previous year or Teacher Recommendation

This course provides an opportunity for students who have completed Beginning Piano to continue their development as keyboard musicians. In addition, through course admission by audition, this course can provide an appropriate placement for students who have acquired some level of piano proficiency through private lessons.

1521 - Concert Band (Brass/Woodwind)

Grades 10-12 | Credits: 5

Concert Band is open to any student playing a brass or woodwind instrument. Students study and perform standard literature written or transcribed for concert band. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instrument. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Enrollment in band is a prerequisite for performing in any other ensembles such as marching band, jazz band, orchestra, or percussion ensemble.

1507 - Concert Band (Percussion)

Grades 10-12 | Credits: 5

Concert Band (Percussion) is open to any student playing a percussion instrument. Students study and perform standard literature written or transcribed for concert band and percussion ensemble. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instrument. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Enrollment in band is a prerequisite for performing in any other ensembles such as marching band, jazz band, orchestra, or percussion ensemble.

1520 - Honors Wind Ensemble

Grades 10-12 | Credits: 5 | Prerequisite: Successful completion of an audition

Wind Ensemble is an honors-level course open to a limited number of brass, woodwind, and percussion students selected through an audition process. Audition requirements may be obtained from the Music Department. Students study more difficult repertoire written for smaller wind bands. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the day. Through private practice and group lessons, students increase their technical proficiency. Students are required to attend all scheduled afternoon and evening rehearsals and all performances. Students are expected to audition for Region Band. Students

not able to audition must complete an alternate performance experience. Due to the nature of the wind ensemble, the following is the recommended instrumentation. This instrumentation may be modified to accommodate balance challenges with the group. Participation in the Wind Ensemble is limited to the following instruments:

4 Flutes	6 Bb Clarinets	1 Bass Clarinet
2 Bassoons	1 Tenor Saxophone	4 French Horns
3 Trombones	1 Tuba	1 Mallet Percussion
2 Oboes	1 Alto Clarinet	1 Contrabass Clarinet
2 Alto Saxophones	1 Baritone Saxophone	5 Trumpets
2 Euphoniums	3 Percussion	1 Timpani

1537 - Honors Chamber Orchestra

Grades 10-12 | Credits: 5 | Prerequisite: Successful completion of an audition

Chamber Orchestra is an honors-level course open to a limited number of string players through an audition process. Audition requirements may be obtained from the Music Department. Wind, brass, and percussion students from the Wind Ensemble may be added to form a Symphony Orchestra. Students study and perform music of greater difficulty written for chamber orchestra. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances. Students are expected to audition for Region Orchestra. Students not able to audition must complete an alternative performance experience. Due to the definition of a Chamber Orchestra, instrumentation is limited and based upon the need for a balance between violins, violas, celli, and basses.

1518 - Orchestra

Grades 10-12 | Credits: 5

Orchestra is open to any student playing a string instrument (violin, viola, cello, string bass). A broad selection of music, encompassing different styles and periods, is performed. Students are expected to attend group lessons, which are offered on a rotating schedule throughout the school day. Through group lessons and private practice, students increase their technical proficiency on their instruments. Students are required to attend all after-school and evening rehearsals and all scheduled performances.

1505/1506 - Chorus

1505 - Chorus (Full-Year)

Grades 10-12 | Credits: 5

Chorus is a full-year choral ensemble open to students without an audition. In Chorus, students will learn how to improve their vocal technique and music reading through singing a variety of music. Previous musical experience is not necessary to be successful in this class. All Chorus classes combine for dress rehearsals and concerts. Chorus performs at both the Winter and Spring Choral Concerts and may have a few additional concert opportunities throughout the year. Attendance at all dress rehearsals and concerts is required.

1506 - Chorus (Semester Option)

Grades 10-12 | Credits 2.5

1508 - Honors Concert Choir

Grades 10-12 | Credits: 5 | Prerequisite: Successful completion of an audition

Concert Choir Honors is a full year elective course offered to 10th through 12th grade students. Enrollment is by audition only. Concert Choir Honors students should anticipate additional after school and evening rehearsals in preparation of many public performances and choral festivals. Concert Choir Honors students are required to attend all rehearsals and performances as part of the course requirement. Qualified advanced students are expected to audition for Regional and New Jersey All-State Chorus. This course emphasizes advanced applications of previously learned fundamentals of ensemble singing through study and performance of quality vocal music. Solo and small ensemble singing are an integral part of this course. The size of the Concert Choir is dependent on a balance of voice parts (soprano, alto, tenor, and bass).

1541 - Honors Bella Voce

Grades 10-12 | Credits: 5 | Prerequisite: Successful completion of an audition

Bella Voce Honors is a full year elective course offered to 10th through 12th grade students. This course is designed to focus and explore literature and vocal technique specifically for the mature treble voice. Enrollment is by audition only. Bella Voce Honors students should anticipate additional after school and evening rehearsals in preparation of many public performances and choral festivals. Bella Voce Honors students are required to attend all rehearsals and performances as part of the course requirement. Qualified advanced students are expected to audition for Regional and New Jersey All-State Chorus. The course emphasizes advanced applications of previously learned fundamentals of ensemble singing through study and performance of quality vocal music. Solo and small ensemble singing are an integral part of this course.

Visual Arts Courses

Two-Dimensional Sequence

1265 - Studio Art - Dry Media

Grades 10-12 | Credits: 2.5

This semester course offering is designed for all students seeking a strong art foundation and an outlet for creative expression. It is a foundational course with a focus on drawing with dry media and the keystone in a sequence of courses that will enable all students to develop conceptual and technical skills in preparation for greater success in all visual art endeavors. Students can take one of the other semester offerings of Studio Art (wet media or printmaking) to complete a Full Year experience. All three semester offerings of Studio Art will run concurrently. The course is recommended for, but not limited to, students preparing to apply for future enrollment in Honors Studio Art and/or Advanced Placement Studio Art. It is also highly recommended for students with an interest in art or an art-related career.

1266 - Studio Art - Wet Media

Grades 10-12 | Credits: 2.5

This semester course offering is designed for all students seeking a strong art foundation and an outlet for creative expression. It is a foundational course with a focus on painting with wet media and the keystone in a sequence of courses that will enable all students to develop conceptual and technical skills in preparation for greater success in all visual art endeavors. Students can take one of the other semester offerings of Studio Art (dry media or printmaking) to complete a Full Year experience. All three semester offerings of Studio Art will run concurrently. The course is recommended for, but not limited to, students preparing to apply for future enrollment in Honors Studio Art and/or Advanced Placement Studio Art. It is also highly recommended for students with an interest in art or an art-related career.

1267 - Studio Art - Printmaking

Grades 10-12 | Credits: 2.5

This semester course offering is designed for all students seeking a strong art foundation and an outlet for creative expression. It is a foundational course with a focus on printmaking and the keystone in a sequence of courses that will enable all students to develop conceptual and technical skills in preparation for greater success in all visual art endeavors. Students can take one of the other semester offerings of Studio Art (dry media or wet media) to complete a Full Year experience. All three semester offerings of Studio Art will run concurrently. The course is recommended for, but not limited to, students preparing to apply for future enrollment in Honors

Studio Art and/or Advanced Placement Studio Art. It is also highly recommended for students with an interest in art or an art-related career.

1260 - Studio Art II (H)

Grades 10-12 | Credits: Credits: 5 | Prerequisite: Grade of B or better in any of the Studio Art tracks or application process including interview and samples of prior work.

Studio Art II (H) is for the student who has a strong command of the fundamental elements and principles of art and a proficiency in drawing skills and techniques, has explored thematic ideas and is ready to prepare a professional portfolio for presentation to college admissions, prospective employers and/or the general public.

Introductory Level Courses

XXXX - Partner Art

Grades 10-11-12 | Credits: 2.5

Partner Art is designed with an inclusion model in mind. Peer models will work together with classified students receiving specialized programming through a curriculum designed to cultivate and promote student leadership, peer mentoring, collaboration and creativity. The focus of this class will be to provide students with a variety of creative experiences in a variety of different art forms. Peer assisted learning will be used to cultivate partner relationships. Students interested in being placed in the course as a peer model will complete an application and be selected to participate in the course. Approximately two students per semester will be selected for placement.

Related Course:

XXXX - Partner Film and Acting

Available in the Performing Arts catalog.

1291 - Science Fiction in the Movies!

Grades 10-12 | Credits: 2.5

This course will afford students the opportunity to explore the uses of science fiction in the movies from the beginnings of filmmaking until today. Unit topics will include: "Humans and Technology," "Knowledge Isn't Always Power," "The Search for Meaning," "Strange Phenomena," "Science Fiction as a Critique of Society," and "People in Time and Space." Film clips and full feature films will be shown from a variety of different Science Fiction movies. This is the perfect course to complement the full year Film Appreciation course or to be taken all on its own!

1290 - Film Appreciation - The Art of Enjoying Cinema

Grades 10-12 | Credits: 5-5

The course helps the student to become a film critic and to develop an awareness of film's special language—the terms with which screenwriters, directors, and directors of photography speak. Classics, contemporary cinema, foreign films, short films, television shows, and documentaries are shown to expose students to a variety of genres. Films from the birth of this technology to the present are screened, compared, analyzed, and discussed. The class focuses on both the history of the film and the style in which the production was shot. Film clips will also be utilized to show examples of certain types of filmmaking techniques.

1280 - Storytelling Through Visual Illustration

Grades 10-12 | Credits: 2.5

The art of storytelling through pictures comes to life in this exciting new course! With comic books, editorials, caricatures and children's books, you'll interpret a variety of texts - short story, poetry, interview, editorial non-fiction, essay – through the techniques and media of a professional illustrator. You'll get a chance to experiment with painting, drawing, printmaking and design tools to develop a personal style. Whether you are interested in pursuing illustration as a career or just have a story to tell, Illustrating the Written Word is for you!

1254 - Animation

Grades 10-12 | Credits: 2.5

This course will focus on two- and three- dimensional animation, the elements of art and principles of animation. Skill development emphasizes the interactive use of drawing and design fundamentals, storyboarding, set building, composition and imaging, editing, lighting, audio and sound creation, as well as discussion of the creative process and critique. Students will be introduced to the 12 principles of animation and will stress their importance while creating original story-driven work. The techniques of still framing, stop motion, and claymation will be used with Mac computers and Creative Cloud Adobe Photoshop, large Wacom digital tablets and digital cameras. Why just watch cartoons when you can learn to create your own?

1253 - Digital Graphic Arts & Design Level I

Grades 10-12 | 2.5

Students are made aware of the varied occupations and careers that comprise the commercial art field through projects that emphasize visual communications. Basic and advanced activities along with layout principles are introduced and explored through Adobe Illustrator, Photoshop and digital tablets. The course highlights the importance of visually exploring and discussing the creative process through skill development and critique. The course is 100% computer

based (Mac). Projects may include, but are not limited to layout and lettering design, corporate and personal logos, posters, invitations, CD covers, cereal box covers, soda cans, business cards, and contests for meeting the needs of the client. This course serves as a prerequisite to Digital Graphic Arts & Design Workshop.

1261 - Airbrush

Grades 11-12 | Credits: 2.5

Within this course, students are introduced to the basic functions and proper use of the airbrush. Masking methods, freehand illustration techniques and design principles are applied to class projects. Care and maintenance of the airbrush are stressed.

1259 - Introduction To Sculpture

Grades 10-12 | Credits: 2.5

Students will design and create 3D forms using additive and subtractive methods. A variety of materials such as paper, board, wire and plaster may be used to explore relationships of volume, texture and space. This course serves as a prerequisite to Sculpture Workshop.

1258 - Interior Design

Grades 10-12 | Credits: 2.5

Students learn to create living spaces by designing floor plans and elevations to scale. Principles of design such as color, pattern, and texture are then applied to the students' designs to complete the process. Board work as well as computer aided design will be used.

1262 - Introduction to Ceramics

Grades 10-12 | Credits: 2.5

Students learn basic hand-building techniques for forming clay and treating clay surfaces, including ceramic staining and glazing. Throwing techniques on the potter's wheel will be demonstrated. This course serves as a prerequisite to Ceramics Workshop.

1251 - Introduction to Photography

Grades 10-12 | Credits: 2.5

The course introduces the basic principles of photography and photographic composition. Thirty-five mm and digital cameras are used. Composing images when taking pictures is emphasized. The basic darkroom techniques, developing film, making proof sheets and enlargements are experienced. With digital photography, students use computer applications such as Photoshop and InDesign. Cameras, film photo paper and chemicals are supplied for basic assignments. This course is a prerequisite for Photography Workshop.

1273 - Jewelry Studio

Grades 10-12 | Credits: 2.5

Students will develop miniature sculptural forms as functional jewelry. Students gain basic sculptural and body adornment skills using various materials. Embellishment of both 2 and 3D surfaces through selected materials and techniques are accomplished.

Workshop Level Courses

1024 - EBHS Publisher's Workshop

Grades 10-12 | Credits: 5-5

In this innovative, workshop-based course, students will collaborate with peers and teachers to find, write, photograph, and publish stories for school periodicals with special focus on the creation of the Yearbook. The course will have two teachers; one who focuses on photography & graphic design, and one who focuses on journalistic writing. Students may select a focus of either graphic design or writing, or may explore both. All students will produce material that is ultimately published in a school periodical. Students should be self-motivated, self-directed, independent, and of high integrity.

1023 - EBHS Publisher's Workshop II H

Grades 11-12 | Credits: 5 | Course prerequisite: Publisher's Workshop

In Part II of Publisher's Workshop, students will continue to collaborate with peers and teachers to find, write, photograph, design & publish stories for the Yearbook & EBHS Bear Hub, with a special emphasis on developing workplace leadership skills. Students will explore higher level concepts involved in publishing including topics like media/photojournalism law, news literacy, story package planning, and how to grow readership. Students will be required to take on a leadership role and delegate journalistic and publishing assignments while also completing editorial review of peer contributions. Students will continue to hone their chosen specialties within the course and seek to discover their personal writing, photography, and/or graphic design style by presenting a culminating thesis presentation showcasing the growth and development of their chosen specialty. This course will run concurrently with Publisher's Workshop.

1250 - Digital Graphic Arts & Design Workshop

Grades 10-12 | Credits: 2.5 | Prerequisite: Grade of B or better in Digital Graphic Art & Design Level I (or grade of A in 9th grade Intro to Digital Graphic Art & Design)

A second step to the precursor Level I class, students will continue to be made aware of the varied occupations and careers that comprise the commercial art field through projects that

emphasize visual communications. Advanced activities along with layout principles are stressed and explored through Adobe Illustrator, Photoshop, After Effects, digital tablets, and digital cameras. This course is 100% computer based instruction (Mac) and is designed for students looking to build a portfolio in order to major in the Graphic Arts as well as the student who just enjoys the creation of digital art. Projects include, but are not limited to typography, 100 triangle composition, metalwork and coin creating, photo mosaic and photo colorizing composition.

1252 - Photography Workshop (Levels 1-3)

Grades 10-12 | Credits: 2.5 | Prerequisite: Grade of B or better in Introduction to Photography

Photography Workshop is a sequential course that builds from the basics in the introductory course. Students are introduced to photographic accessories including lenses, different format cameras, use of color filters and studio lighting. Conceptual images, as well as digital and computer enhancement, will be explored. Emphasis is placed on photographic techniques found in the works of the experts, unique images and mastery of composition through shooting and printing.

1263 - Ceramics Workshop (Levels 1-3)

Grades 10-12 | Credits: 2.5 | Prerequisite: Grade of B or better in Introduction to Ceramics

This course provides a greater concentration in all areas, including hand building, glaze chemistry, kiln loading and firing, clay making and the potter's wheel. Instruction is individualized, allowing students to develop their own ideas and areas of concentration. Advanced students are expected to help in the introductory classes and to produce quality work on the potter's wheel.

1269 - Sculpture Workshop

Grades 10-12 | Credits: 2.5 | Prerequisite: Grade of B or better in Introduction to Sculpture

The Sculpture Workshop is for students with a strong command of the fundamental elements and principles of art who are interested in further developing visual artistic sensibilities in 3-dimensional artwork. In building a portfolio and by maintaining a sketchbook, students experience a variety of concepts, techniques and approaches designed to encourage creative as well as systematic investigation of formal, technical, and expressive issues in a 3-dimensional format. This course will provide an opportunity for students to continue to develop original sculpture by exploring the plastic possibilities of various concepts, forms, and processes. Among the materials that may be used are stone, clay, plaster, wire, metal, plastic, wood, Styrofoam, foam core, and found objects.

Advanced Placement Courses

1275 - AP Art and Design

Grades 12 | Credits: 5-5 | Prerequisite: Students must satisfy an application process including interview, written statement, and samples of prior work.

This course is designed for the advanced visual arts student and attempts to help students qualify for credit in Advanced Placement in colleges. Students will be required to create and submit an extensive body of 2-dimensional work. It requires a high degree of commitment to studio work and to the purposes of a program designed to meet college standards. Students can choose to prepare for either the AP Drawing Portfolio or the AP 2D Design Portfolio.

1292 - AP History of Art

Grades 11-12 | Credits: 5-5

This course examines the developments in painting, sculpture and architecture from ancient times to the 21st century. Designed to foster student understanding and enjoyment of works of art, this course aims to develop their ability to examine art intelligently, acquainting them with the major forms of artistic expression in their own time and cultivating an understanding of art from other times and cultures. No prior experience in art is assumed. Indeed, students who have done well in other humanistic studies such as history and literature, or in any of the studio arts, are especially encouraged to enroll. The course attempts to help students qualify for credit and advanced placement in colleges. It requires a high degree of commitment to academic work and to the purposes of a program designed to meet college standards. However, the course may be taken for high school credit only. Students electing Advanced Placement Art History have the option of receiving high school credits in either art or social studies. Meets NCAA Core Course Requirements.

Special Electives

1294 - Humanities

Grades 12 | Credits: 5-5

Humanities is a once-in-a-lifetime, seniors only arts course where we talk about human experiences that everyone who has ever lived dealt with. Through wacky activities, hands-on explorations and collaborative play, you will experience the arts, performances, history, philosophy, cultural figures from the past and present and learn something about yourself in the process. Don't leave high school without taking this class!

A Sampling of What We Study:

- Get rebellious by joining a Punk Band
- Create beauty by sculpting the human form with Play-Doh
- Emote through Live Poetry Performances
- Relate to nature through a Recycled Fashion Show
- Explore musical diversity by creating a Song Remix
- Combat intolerance through Graphic Design
- Express your opinion through Protest
- Give back to your world through a Community Service Start-Up
- Follow society's rules through 18th Century Dance
- Connect with your inner child through Outdoor Play
- Find Society's boundaries with Graffiti Tags

Meets NCAA Core Course Requirements.

English Courses

1002 - English 10

Grade 10 | Credits: 5

English 10 explores significant works of literature, both fiction and nonfiction, from a thematic perspective. In addition to reading both short and full-length works, students engage in analytic discussion regarding themes and characters within the works and apply their understanding to personal experience, as well as make connections across texts. Frequent analytical, narrative, and synthesis style writing assignments are an important part of this course. This course will prepare students for the state mandated exam, which measures performance relative to the New Jersey Student Learning Standards. Meets NCAA Core Course Requirements.

1001 - English 10 H

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

English 10 Honors explores significant works of literature, both fiction and nonfiction, from a thematic perspective. In addition to reading challenging short and full-length works, students engage in detailed discussion regarding the philosophical ideas, themes, and characters within the texts, as well as make connections across texts. They also write interpretive and argumentative pieces based upon the literature and spend a significant amount of time on developing analytical, narrative and synthesis style writing. This course will prepare students for the state-mandated exam, which measures performance relative to the New Jersey Student Learning Standards. Meets NCAA Core Course Requirements.

1007 - English 11

Grade 11 | Credits: 5

English 11 explores significant works of literature, both fiction and nonfiction, from a thematic perspective. In addition to reading both short and full-length works, students engage in analytic discussion regarding themes and characters within the works and apply their understanding to personal experience, as well as make connections across texts. Frequent analytical, narrative, and synthesis style writing assignments are an important part of this course. This course will prepare students for the state mandated exam, which measures performance relative to the New Jersey Student Learning Standards. Students will also have the opportunity to take the Accuplacer, an online assessment given to college students. Meets NCAA Core Course Requirements.

1006 - English 11 H

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

English 11 Honors explores significant works of literature, both fiction and nonfiction, from a thematic perspective. In addition to reading challenging short and full-length works, students participate in and lead detailed discussion regarding the philosophical ideas, themes, and characters within the texts, as well as make connections across texts. Students use ideas from the non-fiction texts as lenses for interpreting the fiction. They write short narrative and literary analysis pieces and longer synthesis essays. Students prepare for the state-mandated exam, which measures performance in relation to the Common Core standards. Meets NCAA Core Course Requirements.

1012 - English 12

Grade 12 | Credits: 5 | Dual-Credit Option

English 12 emphasizes the skills needed for successful college-level reading and writing. Students will closely read thematic-based college level texts to write a series of argumentative papers. By the end of the school year, students enrolled in English 12 will be able to compose coherent, well-developed, and grammatically correct essays. They will also be able to summarize and respond to texts, synthesize scholarly sources, apply inferential skills, and demonstrate mastery of the writing process.

Students may select a “special topics” theme for their English 12 course. The English 12 “special topics” options are listed below with brief descriptions of the course content. If students choose not to take a special topics course, they will automatically be enrolled in our comprehensive course English 12: Writing about Social Psychology and Human Nature.

Students will select one of the five options below. Please note, we will do our best to honor a student’s first choice, but requests are not guaranteed. Course availability is also subject to change. The content for all courses listed below aligns with Middlesex County College’s ENG-121.

1012 - English 12: Writing about Social Psychology and Human Nature

This comprehensive English 12 course is a study of several genres and themes related to psychology and human behavior. Some units of study may include, but are not limited to: media manipulation and skepticism, teens and privacy, bullying and the Bystander Effect, modern love, and mental health in modern society.

1015 - English 12: Writing about Crime and Justice

This special topics English 12 course will explore contemporary issues in the American justice system and the complex issues that arise, such as adolescents and the judicial system,

punishment or rehabilitation, and life sentences or the death penalty. Units of study may include, but are not limited to: profiling/criminal psychology, juvenile detention systems, the evolution of laws, and “wars” on ideas.

1016 - English 12: Writing about Sports and Gaming

This special topics English 12 course will channel the passion that many high school students have for sports and explore the broad and complex role of athletics in contemporary America. Likewise, emerging topics in gaming will engage students in exploring the role that technology has added to what were once considered “leisure” activities. Units of study may include, but are not limited to: fantasy sports and online gambling, the American sports hero, pressures on high school athletes, and the economics of professional sports.

1017 - English 12: Writing about Film and Television

This special topics English 12 course will analyze how film and television offers a window into society, and how both the form and content of media reflect social values and aspects of human nature. Offering students the opportunity to view visual texts through varied lenses, the class will examine the relationship between individuals and the media. Units of study may include, but are not limited to: comics and superheroes, the influence of the box office, censorship and ratings, roles of tropes and archetypes, the psychology of binge watching, and reality TV.

1018 - English 12: Writing about Music and the Arts

This special topics English 12 course will explore the societal significance of various mediums and genres of art and music, from classic to contemporary, from modern to postmodern. Students will also learn how to evaluate and respond to music and the arts in an intelligent, informed and passionate manner; furthermore, turn their ideas into written arguments. Units of study may include, but are not limited to: what defines art, music as rebellion, censorship and controversy, and the art versus the artist. Meets NCAA Core Course Requirements.

1009 - College Writing H

Grade 12 | Credits: 5 | Prerequisites will determine placement into course | Dual-Credit Option

College Writing Honors is a senior year writing intensive course designed to immerse high school students into the expectations and rigor of college writing. During the first semester, students will read, comprehend, analyze, and evaluate multiple nonfiction texts used in Expository Writing 101 at Rutgers University. Through the process of writing multiple drafts of expository essays, students will develop independent theses that connect and respond to the ideas and information in the texts they read. During the second semester, students will extend their understanding of the college writing process by reading and making connections across thematically linked fiction and nonfiction multimodal texts. Students will continue to learn and

develop the skills of clear, correct, effective English by reading essays, longer works of non-fiction prose, and literary criticism. Students will complete a variety of writing projects requiring techniques such as cause and effect, analysis, evaluation, synthesis, argumentation, and persuasion. The course content aligns with Rutgers University's Expository Writing 101 and Middlesex County College's Composition I and II. Please note the College Writing Honors course is currently under review at Rutgers. There is a possibility students may have to choose between Middlesex County College credits and Rutgers University credits. Students and parents will be notified of the decision when the review process at Rutgers is finalized. Meets NCAA Core Course Requirements.

1013 - AP Seminar

Grades 11 | Credits: 5 | Prerequisites will determine placement into course

AP Seminar is a highly collaborative, interdisciplinary course where students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. AP Seminar students develop and use inquiry skills to question and explore, understand and analyze, evaluate multiple perspectives, synthesize ideas, and create arguments. Students are assessed with two performance tasks throughout the year and an end of course exam. Students taking AP Seminar should be motivated and independent as well as willing to expand their understanding through research, share and defend thoughts and ideas, strengthen modes of communication, and accept fair criticism and use feedback to develop their writing. AP Seminar is a prerequisite for AP Research. This course is required for the AP Capstone Certificate and/or AP Capstone Diploma. Please refer to the Course Levels page for specific requirements about the AP Capstone program.

1005 - AP English: Language and Composition

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

AP English I (Language and Composition) is a demanding college level course offered to juniors in which students employ an intensive, interpretative, and critical approach to modern and classic texts. Students develop their unique perspectives and writing voices through small and large group discussion, and through a variety of writing tasks. Writing assignments include the analysis of texts, including structure and style, and reflect all of the rhetorical modes. Students are prepared for and encouraged to take the AP Language and Composition Examination in May. There is also a required summer project for this course. Meets NCAA Core Course Requirements.

1010 - AP English: Literature and Composition

Grade 12 | Credits: 5 | Prerequisites will determine placement into course

AP English II (Literature and Composition) is a demanding academic course in which students employ an intensive, interpretive, and critical approach to modern and to classical literature through class and independent reading, through small and large group discussion, and a variety of writing experiences. Writing assignments include the analysis of language, structure, and style and incorporate writing for formal and informal purposes. Students are prepared for and encouraged to take the Advanced Placement English Literature and Composition Examination. There is also required summer reading for this course. Meets NCAA Core Course Requirements.

1019 - AP Research

Grade 12 | Credits: 5 | Prerequisite: AP Seminar

AP Research, the second course in the AP Capstone diploma program, requires students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, students further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. Meets NCAA Core Course Requirements.

English Electives

1040 - English 12 Support

Grade 12 | Credits: 5

The results of standardized testing, Middlesex County College's English placement criteria, and/or teacher recommendation, serve as the criteria for enrollment in this course. Students will have the same English teacher for both English 12 and English 12 support and will remain in the class for a double period. Emphasis will be placed on helping students overcome any deficiencies or difficulties they may have in meeting the state graduation requirements for English and the learning outcomes for college level English. A review of reading and writing basics using special materials designed to help students improve, specifically material that reinforces the English 12 curriculum, is the focus of the course.

1042 - SAT Preparation

Grades 10-12 | Credits: 2.5

This semester elective course is designed to help students better prepare for both the verbal and math portions of the SAT exam. Students will utilize a combination of in-person and electronic approaches, to experience the format, requirements, and scoring of the exam. They will also learn various test-taking strategies for success on the SAT. The verbal portion of the course will focus on evidence-based reading and writing tasks, as well as the optional essay component. The math portion of this course is designed to teach students how to approach each type of problem. The semester will be divided in half where students will focus on either verbal or math for the first quarter and then switch to the other content for the second quarter. Ideal candidates for this course are motivated, self-directed learners who can independently complete and submit tasks.

1021 - Creative Writing

Grades 10-12 | Credits: 2.5

This semester English elective course is designed for students who wish to develop their creative writing abilities through independent practice and frequent individual conferences with the instructor. This course trains students to express themselves through original poems, short stories, and essays, based upon their own experiences and sensory impressions. Students read and discuss literary models, as well as read and discuss one another's work. Students also have opportunities to publish their work both within and outside of the school context. Ideal candidates for this course are motivated, self-directed learners who are able to complete and submit tasks independently. Meets NCAA Core Course Requirements.

1020 - Exploring Contemporary Issues in Literature

Grades 10-12 | Credits: 2.5

Exploring Contemporary Issues in Literature is a semester length course that explores the literature of the twentieth century to the present. Students will explore contemporary themes by comparing, contrasting, and analyzing short novels, poems, memoirs, and excerpts. Emphasis will be placed on research and critical analysis skills. Students will also write creatively by developing their own poems, stories, and creative essays. By employing high leverage literacy skills, students will utilize critical thinking and analysis as well as practice speaking and discussion skills. Topics of the course will change as contemporary issues change. Potential themes include those related to gender, race, religion, disability, and socio-economic status.

1021 - Investigative ELA: Crime and Mystery in Literature

Grades 10-12 | Credits: 2.5

This English elective course is designed for students who have an interest in the genres of crime and mystery - perfect for the fan of podcasts and true crime! The class offers students of different levels an opportunity to read/listen to and discuss fiction, nonfiction, podcasts, short stories, television shows, etc . The coursework focuses less on literary analysis, and more on the entertainment value of the texts. The course requires students to read and write critically and creatively, write and discuss reactions to the texts, and think deeply. Students will explore these texts completely in class - no homework! Open discussions and active participation will be a core focus of the course.

1030 - Sports and Literature

Grades 10-12 | Credits: 2.5

This English elective course will channel the passion that many high school students have for sports and use it to develop them into strong readers (of mainly non-fiction texts) and strong writers (of mainly analytic essays). The broad and complex role of sports in contemporary America provides a common intellectual ground for students of different grades, interests and ability levels. Likewise, they will become better readers through exposure to challenging texts of various lengths and better writers through constant exposure to several of the rhetorical modes (such as narration, definition, comparison and process analysis).

1023 - Publisher's Workshop

Grades 10-12 | Credits: 5 | Course Prerequisite: Creative Writing, Sports and Literature and/or any Honors level English course

In this innovative, workshop-based elective course, students will collaborate with peers and teachers to find, write, photograph, design and publish stories for the Yearbook and EBHS Bear Hub. The course will have two teachers; one who focuses on photography & graphic design, and one who focuses on journalistic writing. Students should be self-motivated, self-directed, high integrity multi-taskers ready to contribute to this energetic, tech-oriented newsroom.

1024 - Publisher's Workshop II H

Grades 11-12 | Credits: 5 | Course prerequisite: Publisher's Workshop

In Part II of Publisher's Workshop, students will continue to collaborate with peers and teachers to find, write, photograph, design & publish stories for the Yearbook & EBHS Bear Hub, with a special emphasis on developing workplace leadership skills. Students will explore higher level concepts involved in publishing including topics like media/photojournalism law, news literacy, story package planning, and how to grow readership. Students will be required to take on a leadership role and delegate journalistic and publishing assignments while also completing

editorial review of peer contributions. Students will continue to hone their chosen specialties within the course and seek to discover their personal writing, photography, and/or graphic design style by presenting a culminating thesis presentation showcasing the growth and development of their chosen specialty. This course will run concurrently with Publisher's Workshop.

1025 - Public Speaking H

Grades 10-12 | Credits: 2.5

This English elective course is designed to help students become more confident speakers and better speech writers. Students will learn to research, organize, write, and present various types of speeches: informative, persuasive, and demonstrative. They will also read, analyze, and deliver memorable speeches from literature and history. At the end of the course, students will understand how to effectively write speeches and how to deliver them using rhetorical techniques. Meets NCAA Core Course Requirements.

1029 - Philosophy for Teenagers H

Grades 10-12 | Credits: 2.5

Philosophy for Teenagers Honors is a semester Honors English elective course designed for diligent students interested in reading, writing and thinking about big questions. Students will explore complex topics through units such as Epistemology, Ethics, Free Will and Determinism, and The Meaning of Life. Through readings and class discussions, students will experiment with the basic methods of philosophical inquiry and, ultimately, use these inquiries as a lens through which they examine their own values and assumptions. Students will read selections from the great thinkers as well as selections from other classic and contemporary sources. Students enrolled in this course will be required to complete reading and writing assignments and engage in spirited class discussions on a daily basis.

1014 - Developing Student Leaders H

Grades 11-12 | Credits: 2.5

Developing Student Leaders provides the opportunity for students to realize and investigate their own leadership potential. The course will outline the theoretical foundations of leadership through a thorough review of leadership theories and then provide students with the opportunity to understand what it takes to influence and empower others. Throughout the course, students will identify and develop patterns of leadership in chosen areas of school and community outreach. Students will pursue opportunities for growth and assess their own leadership style through project-based learning. Meets NCAA Core Course Requirements.

1028 - Shakespeare H

Grades 10-12 | Credits: 2.5

This English elective course is designed for students who have a love of literature and drama, and are fascinated by the works of Shakespeare. The class offers students of different levels an opportunity to read and to discuss Shakespeare's comedies, histories and romances. No tragedies! The coursework focuses less on literary analysis, and more on the entertainment value of the plays: the ways the plays have been portrayed in film, the history of Shakespearean theater, and student performances. The course requires students to read critically and creatively, write reactions to the texts, and think deeply. Open discussions and active participation are encouraged.

Health and Physical Education Courses

Health Courses

1702 - Driver Education (Sophomores)

Grade 10 | Credits: 1.25

Grade 10 Health (Driver Education) is a state-certified course of instruction consisting of a minimum of 30 hours of classroom instruction designed to teach the students all they need to know to become safe, responsible drivers. Students will learn how to progress through New Jersey's Graduated Driver's License program, and will receive an opportunity to take the NJ State Permit Test. They will learn how to fulfill the various Motor Vehicle Commission requirements for their vehicles. Students will have a working knowledge of New Jersey's driving rules and regulations and an appreciation of the importance of following these guidelines.

1701 - Health 11 (Juniors)

Grade 11 | Credits: 1.25

Grade 11 Health is designed to re-emphasize many of the important concepts learned in earlier grades. As part of the program, new material will be added which will supplement and add depth to the previously learned concepts and skills. The students will receive a course in the techniques of Adult Cardiopulmonary Resuscitation using the American Heart Association Family and Friends CPR non-certification course. The students will review healthy heart lifestyle choices. The students will be provided with current relevant health information in areas of substance abuse/addictions so they may make informed, intelligent decisions related to their personal use/non-use. This course places a strong emphasis on addictions and making good choices to maintain a healthy lifestyle. They will apply knowledge of sexually transmitted infections so as to evaluate their own level of risk and take steps to change any higher risk behaviors. The students will also look at mental illnesses and how they affect individuals in their daily lives, and learn prevention and treatment methods that are available. Developmental or adaptive health is also available to students with special needs.

1700 - Health 12 (Seniors)

Grade 12 | Credits: 1.25

Grade 12 Health is designed to re-emphasize many of the important concepts learned in the ninth grade health curriculum. As a result of this course, students will have a working knowledge of the male and female reproductive systems. They will evaluate lifestyle behaviors and choices and identify personal risk for reproductive cancers. They will be able to understand how to perform self-exams such as breast and testicular exams. Students will understand how

conception takes place, signs and symptoms of pregnancy, fetal development, labor and delivery as well as how dangerous substances such as drugs and alcohol, etc. can affect the fetus. Students will understand the benefits of abstinence in a relationship. Using current research, they will explore methods of contraception and risk elimination. Students will identify healthy vs. unhealthy relationships. They will compare and contrast attitudes and beliefs about gender identity and sexual orientation. Students will discuss what goes into a healthy long term commitment. Developmental or adaptive health is also available to students with special needs.

Health Electives

1706 - CPR Certification/Teen Stress Management Skills

Grades 10-12 | Credits: 2.5

This elective offers instruction in rescue procedures on INFANTS and CHILDREN in addition to ADULTS. Many students need, or want, this course for their part-time jobs, especially those who are babysitters, camp counselors, lifeguards, student trainers, waiters/waitresses, aerobics instructors, rescue squad or fire department members, etc. In order to receive a Heart Saver Certification Card, students must demonstrate proficiency in performance and knowledge of rescue techniques and pay a nominal fee for the certification card. As part of the program students will have the most updated resources available from the American Heart Association (AHA). The student will acquire and apply knowledge in stress management skills, nutrition and other mental health issues.

Physical Education Courses

1738 - Dance 10-12

Grades 10-12 | Credits: 3.75

Dance is a full-year program that varies from ballet to pop. This course is scheduled as a separate component and receives the same graduation requirements as the physical education course. Physical fitness is also emphasized during dance classes, as well as skill components related to multiple different styles of dance.

1724 - Physical Education 10-12

Grades 10-12 | Credits: 3.75

Physical education for grades 10-12 is an elective program that allows students to select classes that they may be interested in learning more about. The selections are divided into lifetime sports, team sports, and physical fitness units. The class is run on the A/B block schedule for the 3 quarters they are scheduled for Physical Education. The 4th quarter will be

health. Lifetime sports incorporate a wide range of activities that students can use throughout life including teamwork, cooperation, and problem-solving. Instructional units include fundamental skills, tournament play, and motivating students to participate on their own to help develop lifelong fitness and wellness. Team sports emphasize the skills, strategy, and rules of the game. Intangibles such as teamwork, cooperation, and sportsmanship are promoted in all units taught. Physical fitness consists of individual programs, group activities, and physical fitness assessments. Another component of the physical education program is developmental/adaptive physical education. This course is focused on fine and gross motor skill development as well as fitness and socialization skills through various sports activities. This course is concentrated for students with special needs.

Mathematics Courses

College Preparatory Courses

1155 - Algebra I

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

This is a first course in elementary algebra, which uses inductive approaches to develop the basic algebraic operations. Topics studied include integers and operations, solving linear equations and inequalities, polynomials, graphing linear and nonlinear functions, factoring, fractional equations, irrational numbers, data analysis and verbal/word problems. Problem solving will also be a major component of this course, as will the infusion of graphing calculator lessons and activities. Students enrolled in this course must take the Algebra I NJSLA Assessment. Showing proficiency on the Algebra I NJSLA Assessment is currently a state graduation requirement. This course is also available at CJHS (2176). Meets NCAA Core Course Requirements.

1159 - Geometry with Trigonometry

Grade 10 & 11 | Credits: 5 | Prerequisites will determine placement into course

This course develops an understanding of geometry using basic properties, postulates and theorems in the study of triangles, quadrilaterals, and congruence. Other topics include similarity, circles, area, volume, coordinate geometry, transformational geometry, and an introduction to the trigonometric functions and their applications in the right triangle. Students enrolled in this course must take the Geometry NJSLA Assessment. This course is also available at CJHS (2172). Meets NCAA Core Course Requirements.

1167 - Algebra II

Grade 10 & 11 | Credits: 5 | Prerequisites will determine placement into course

This course is a continuation and extension of the concepts studied in Algebra I and Geometry with Trigonometry. Topics include; extending linear and quadratic functions, polynomial functions, analysis of nonlinear functions, statistics and sequences and series. Students enrolled in this course will be expected to purchase either a TI-83+ or TI-84 graphing calculator. These learning tools will be used throughout the course as a means of problem solving and investigation. Students enrolled in this course must take the Algebra II NJSLA Assessment. Meets NCAA Core Course Requirements.

1160 - Algebra II ACC

Grade 10 & 11 | Credits: 5 | Prerequisites will determine placement into course

This course is a continuation and extension of the concepts studied in Algebra I and Geometry with Trigonometry. Topics include; extending linear and quadratic functions, polynomial functions, analysis of nonlinear functions, statistics and sequences and series. In addition, this course will include advanced factoring applications, operations with rational expressions, and conic sections. Students enrolled in this course will be expected to purchase either a TI-83+ or TI-84 graphing calculator. These learning tools will be used throughout the course as a means of problem solving and investigation. Students enrolled in this course must take the Algebra II NJSLA Assessment. This course is also available at CJHS (2180). Meets NCAA Core Course Requirements.

1162 - Algebra II Honors

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

This course is intended for the academically talented student in mathematics. In addition to the topics covered in Algebra II, students will be expected to demonstrate independent thinking as they explore and solve in depth problems related to the applications of the covered topics. Students enrolled in this course will be expected to purchase either a TI-83+ or TI-84 graphing calculator. These learning tools will be used throughout the course as a means of problem solving and investigation. Students enrolled in this course must take the Algebra II NJSLA Assessment. This course is also available at CJHS (2171). Meets NCAA Core Course Requirements.

Advanced Courses

1169 - Fundamentals of College Mathematics

Grade 12 | Credits: 5 | Prerequisites will determine placement into course

This course is designed to provide the student with a strong command of the skills and concepts needed for success in entry-level college mathematics courses. The course presents the algebra of functions and trigonometry of the right angle. In addition, one of the primary goals of this course is to prepare the students for the expectations of a college placement test such as the Accuplacer. Meets NCAA Core Course Requirements.

1158 - Pre-Calculus*

Formerly Advanced Algebra with Trigonometry

Grade 11 & 12 | Credits: 5 | Prerequisites will determine placement into course

This course includes a review of essential skills from Algebra, introduces polynomial, rational, exponential and logarithmic functions, and gives the student an in-depth study of trigonometric functions and their applications. Problem solving and investigation through the use of the graphing calculator is an integral part of this course. Meets NCAA Core Course Requirements.

*This course is pending approval.

1161 - Pre-Calculus ACC*

Formerly Pre-Calculus

Grade 11 & 12 | Credits: 5 | Prerequisites will determine placement into course

This course gives the student the necessary background for the study of calculus by providing an extensive study of functions and their graphs. Polynomial, rational, exponential and logarithmic functions are addressed along with the trigonometric functions, trigonometric identities, trigonometric equations, and polar coordinates. Problem solving and investigation through the use of the graphing calculator is an integral part of this course. Note: This course is not available to students who have completed Advanced Algebra and Trigonometry. Meets NCAA Core Course Requirements.

*This course is pending approval.

1163 - Pre-Calculus with Limits Honors

Credits: 5 | Prerequisite: a minimum course grade of C- in Algebra II H OR a minimum course grade of A- in Algebra II ACC

This course is intended for the academically talented student and includes the study of polynomial, rational, exponential, logarithmic and trigonometric functions. In addition, topics from calculus (such as limits, continuity, and an introduction to the derivative) will also be introduced in this course as a precursor for Advanced Placement level Calculus. Problem solving and investigation through the use of the graphing calculator is an integral part of this course. Meets NCAA Core Course Requirements.

College Pathways Dual-Enrollment Program Courses

1180 - Statistics Honors

Grade 12 | Credits: 5 | Prerequisites will determine placement into course | Dual-Credit Option

This course will familiarize students with mathematical models that occur in more advanced courses and in professions through the use of exploratory data analysis and statistical methods. Topics include descriptive statistics, probability, regression, confidence intervals and an introduction to hypothesis testing. This course also affords students the opportunity to gain

experience with college level material and expectations while still enrolled in high school. Please note that while credit is given for this course at the honors level, previous enrollment in honors level math courses is not a prerequisite for this course. Meets NCAA Core Course Requirements.

1168 - Calculus Honors

Grade 12 | Credits: 5 | Prerequisites will determine placement into course | Dual-Credit Option

This is a full year study of the Calculus of algebraic, trigonometric, exponential, and logarithmic functions. Topics include limits, differentiation and its applications, integration and the applications of the definite integral. This course also affords students the opportunity to gain experience with college level material and expectations while still enrolled in high school. Please note that while credit is given for this course at the honors level, previous enrollment in honors level math courses is not a prerequisite for this course. Meets NCAA Core Course Requirements.

1183 - Calculus II Honors

Grade 12 | Credits: 5 | Prerequisites will determine placement into course | Dual-Credit Option

Honors Calculus II will be offered in partnership with Middlesex County College as part of the College Pathways Dual Enrollment program and its rigor will be consistent with a second semester of college calculus. Honors Calculus II includes the study of transcendental and hyperbolic functions, applications of integration, more sophisticated techniques of integration, simple differential equations, parametric curves and vectors, indeterminate forms, Taylor's formula, infinite series as well as topics in analytic geometry. Please note that while credit is given for this course at the honors level, previous enrollment in honors level math courses is not a prerequisite for this course. Meets NCAA Core Course Requirements.

1182 - Calculus III Honors

Grade 12 | Credits: 5 | Prerequisites will determine placement into course | Dual-Credit Option

Honors Calculus III will be offered in partnership with Middlesex County College as part of the College Pathways Dual Enrollment program and its rigor will be consistent with a third semester of college calculus. This course will specifically address advanced topics in calculus. Students will explore the use of multivariable calculus to represent phenomena in three-dimensional space and to analyze functions of more than one variable. Meets NCAA Core Course Requirements.

Advanced Placement Courses

1166 - AP Statistics

Grade 12 | Credits: 5 | Prerequisites will determine placement into course

This course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The purpose of the course is to introduce the students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. Exploration and investigation are fostered via the use of technology tools and applications. Meets NCAA Core Course Requirements.

1164 - AP Calculus AB

Grade 11 & 12 | Credits: 5 | Prerequisites will determine placement into course

This college-level course stresses elementary functions and analytic geometry as well as the concepts and applications of differential and integral calculus via the use of analytic methods and technology. It prepares students for the AB Advanced Placement Examination as well as more advanced mathematical study at the college level. The use of technology is an integral part of this course as are advanced problem-solving strategies and methods. Meets NCAA Core Course Requirements.

1165 - AP Calculus BC

Grade 11 | Credits: 6.25 | Prerequisites will determine placement into course

This is a college-level course, which is considerably more extensive and rigorous than the Calculus AB course. It prepares the student to take the BC Advanced Placement Examination as well as more advanced mathematical and scientific study at the college level. All the topics of the Calculus AB course are included, along with additional topics such as differential equations and sequences and series. The use of technology is an integral part of this course as are advanced problem-solving strategies and methods. Meets NCAA Core Course Requirements.

Supplementary Courses

1157 - Algebra II LAB (Full Year)

Grade 11 & 12 | Credits: 5 | Prerequisites will determine placement into course

This course is intended for students who require additional support in mathematics and is taken in conjunction with Algebra II. Students whose Algebra I and Geometry NJSLA scores were in the partially proficient ranges and/or who earned a final course grade of C or below in Algebra I and/or Geometry w/Trig are strongly encouraged to participate in this course. In addition to

supporting the student's Algebra II experience, this course will also address problem solving and test taking strategies that are consistent with the expectations of state standardized tests.

1190 – Senior Math Lab (Semester Course)

Credits: 2.5 | Placement based on graduation requirements

This Course is a required course for seniors that have not met graduation requirements through the standardized testing or alternate assessments. In this course the students will work on Portfolio assessments to meet their math graduation requirement in addition to taking Accuplacer and other alternate assessments that might help them meet their graduation requirement.

Mathematics Electives

1042 - SAT Preparation

Grades 10-12 | Credits: 2.5

This semester elective course is designed to help students better prepare for both the verbal and math portions of the SAT exam. Students will utilize a combination of in-person and electronic approaches, to experience the format, requirements, and scoring of the exam. They will also learn various test-taking strategies for success on the SAT. The verbal portion of the course will focus on evidence-based reading and writing tasks, as well as the optional essay component. The math portion of this course is designed to teach students how to approach each type of problem. The semester will be divided in half where students will focus on either verbal or math for the first quarter and then switch to the other content for the second quarter. Ideal candidates for this course are motivated, self-directed learners who can independently complete and submit tasks.

Practical Arts Courses

Business Education Courses

1404 - Accounting I

Grades 10-12 | Credits: 2.5

The field of accounting is for individuals looking for an exciting career; one that offers high earning potential, travel throughout the USA and abroad, and the opportunity to advance in many careers. Accounting I will introduce students to the accounting cycle, which will serve as a sound background for employment in both the private sector and government entities, owning your own business, and preparation for studying business/commerce courses at college and ultimately in graduate school. Students will be introduced to the computerized accounting cycle stressing general ledger skills needed for producing financial statements for both a single proprietorship and a partnership. This course is also offered at CJHS (2404).

1407 - Accounting II

Grades 10-12 | Credits: 2.5 | Prerequisite: Accounting I

Accounting II focuses on a business organization established as a partnership. Students study the accounting cycle as it pertains to small business opportunities. They work in a fully computerized laboratory to enhance their knowledge of payroll, financial statements, and merchandising business accounting. A real life business simulation is used to enhance student understanding of merchandising. This course provides an excellent background for college-bound students who plan to major in accounting or other business fields.

1411 - Accounting 101 H (Financial Accounting)

Grades 11-12 | Credits: 5 | Dual-Credit Option

This accounting course is a full-year college-level course designed for juniors and seniors wishing to further their study in an accounting environment. Students planning a career in business, planning on getting an MBA, and owning and operating a business, would do well to take this college-level course. The course covers the accounting cycle from the recording and analyzing of procedures through the summarizing procedures and preparation of general-purpose financial statements. An introduction to accounting for corporations is also presented with emphasis on the capital structure of the corporation. Accounting I & Accounting II are NOT prerequisites for Accounting 101.

1401 - Introduction to Business

Grades 10-12 | Credits: 2.5

Introduction to Business is a half-year course designed to introduce the student to the environment of business today. Students will examine the world of business and how it can and does affect their lives. Ethical and social responsibility issues will be discussed, as well as the increasing importance of international (global) business. The course is designed to be an introduction to the business electives offered at the high school level. It incorporates marketing, accounting, economics, business ownership/entrepreneurship, management/organization, human resources, finance, investment, and legal aspects of the business environment. This course is also available at CJHS (2406).

1402 - Introduction to Marketing

Grades 10-12 | Credits: 2.5

Intro to Marketing is a half-year course designed to provide the student with a background in the functions and principles of marketing. Intro to Marketing seeks to expose students to media methods of research, and evaluations that are used to sell a product, service, or business. Hands-on experience is given in copywriting, layout, and production in various media. This course meets the New Jersey mandate of a 21st Century Career requirement for all high school students. This class enables students to apply skills to a variety of activities centered on the 7 Functions of Marketing: management, finance, personal selling, promotion, distribution, pricing, and product. Students will develop assignments and projects that authentically assess learned skills. Students will acquire a strong foundation on how businesses use effective marketing strategies in the business world. This course is also offered at CJHS (2407).

1410 - Sports and Entertainment Marketing

Grades 10-12 | Credits: 2.5

Welcome to the world of sports and entertainment marketing; an area of the economy in the USA, which is extremely interesting, lucrative and important to many. There are literally billions of dollars spent each year in this industry dealing with sports figures, teams, apparel licensing, broadcasting, and advertising of common household products. This course is geared to students with an interest in this area for possible career paths or for the student who just wants a background in marketing for personal use. The course will cover areas such as public relations, event and stadium management, labor relations, advertising, and looking at sponsorship agreements with professional athletes. A field trip to a newer stadium or arena will be offered to show students the revenue potential of a stadium or arena.

1405 - Marketing Capstone H (Hybrid Course)

Grade 12 | Credits: 2.5

Prerequisite: Either Sports & Entertainment Marketing, Introduction to Marketing, or Entrepreneurship (Must earn at least a B)

Senior students will be completing advanced marketing projects in specialized areas of Marketing. Students will study the marketing processes used by local businesses (in person) to market their products and services as well as assist local businesses in the marketing of their business. Students will create marketing plans and presentations for real and pseudo organizations and provide them with real marketing scenarios. This class does not meet every day, this is a hybrid course that is facilitated by an East Brunswick Business Teacher. When classes do not meet in person independent assignments will be provided as well as fieldwork with local businesses.

Prerequisite to Marketing Capstone: B or higher in Intro to Marketing, Sports & Entertainment Marketing, or Entrepreneurship.

1408 - Business and Consumer Law

Grades 10-12 | Credits: 2.5

In Business and Consumer Law, students will learn about the basic issues of our legal system that relate to everyday living. Topics explored include how to buy and insure a vehicle, warranty protection, personal property law, and bailments. Students will learn what business and consumer law is and how it applies to them. The students will investigate current law cases and terminology, as well as have the opportunity to research legal issues on the Internet. Information learned in this semester-long course will prove useful to students as they move through life as consumers.

1409 - Entrepreneurship

Grades 10-12 | Credits: 2.5

In Entrepreneurship, students will learn what is involved to start and operate a successful business. Students will discuss current events as they relate to the ideas and concepts of starting their own business. This is a hands-on, activity-based course in which students formulate a business plan and learn how new businesses are created. Throughout this course, we will study and analyze what leads to the success and failure of various business ventures.

1419 - International Business and Politics – H

Grades 10-12 | Credits: 2.5

This course is offered for students who are interested in global economics and international trade. Discussions include current events in domestic and international politics on a daily basis. Among the topics covered are global trade/import, political and cultural influences on the business climate, trading blocs, trade agreements, intellectual property. Energy topics will be delivered through an exciting weeklong energy summit. Foreign currency exchange, along with global giants such as the WTO, IMF will be analyzed. Computer research assists students in solving problems and simulations associated with the complex world of global trade and economic interdependence. Meets NCAA Core Course Requirements.

1412 - Financial Literacy

Grades 10-12 | Credits: 2.5 | Graduation requirement; This course is offered as an online course – See your counselor for details.

Every student needs to master their finances now, and for the rest of their lives. Our Financial Literacy course addresses the need for all students to know how to earn, save, and manage their money. Through engaging, student-centered activities and projects that require 21st-century skills, our students will master career exploration, money management, credit, saving and investing skills. They will also dive into the world of informed purchasing, civic financial responsibility and risk management.

Our Online Financial Literacy course was developed by East Brunswick Teachers and is taught by East Brunswick Teachers. The course covers the same core concepts as the traditional class and the class is taught exclusively online. This class is perfect for highly motivated students who like to work independently and possess strong time management and written communication skills. The assignments and projects are continuously being updated to enhance the online environment. Students enrolled in Online Financial Literacy will be able to take an additional 2.5 credit during the year. This course is also available at CJHS (2405).

Computer Science and Literacy Courses

1341 - Game Design

Grade 10-12 | Credits: 2.5

This course will provide a practical introduction to game design and game design concepts, emphasizing the basic tools of game design: paper and digital prototyping, design iteration, and user testing. This course will allow students to spend the quarter learning how to create a basic video game or game content. Students who have an interest in video game design but do not know where to begin should consider taking this course. At the most basic level, students may

use 2D game creation software such as Game Maker to look into the mechanics of gaming and the code behind it. There is also the opportunity to explore further and collaborate in groups to create a more advanced game using a game-engine and animation software.

1456 - Principles of Cybersecurity H

Grade 10-12 | Credits: 2.5

Principles of Cybersecurity will provide learners with principles of data and technology that frame and define cybersecurity. Learners will gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. The interactive, self-guided format will provide a dynamic learning experience where users can explore foundational cybersecurity principles, security architecture, risk management, attacks, incidents, and emerging IT and IS technologies.

1455 - AP Computer Science - Principles

Grade 10-12 | Credits: 5 | Prerequisite: A grade of A- or better in Introduction to Computer Science - OR - Instructor approval | Dual-Credit Option

AP Computer Science Principles is a course that will introduce students to the big ideas of computer science, and how computers will change our lives. Instead of teaching specific applications, students will have to use all aspects of computer science to solve large-scale problems affecting society.

The course focuses on three important ideas:

- Creativity in solving problems
- A means to solve technological problems using large amounts of data
- Internet and societal citizenry

While programming skills are expected, knowledge of programming is only required for solving the task at hand. Grading will be based on collaborative as well as individual portfolio assessments. Students who complete this course will be prepared to take the AP Computer Science Principles exam.

1454 - AP Computer Science - A

Grades 10-12 | Credits: 5 | Prerequisites: A grade of A or better in Introduction to Computer Science, Co-requisite: Algebra II | Dual-Credit Option

This full-year course is designed to prepare students to take the AP Computer Science exam. Students build on their understanding of computer science through the use of the Java language, used in many higher education institutions. The study of object-oriented program

design and algorithms is a major emphasis. Topics include strings, vectors, classes and the AP exam format.

1450 - Introduction to Computer Science

Grades 10-12 | Credits: 2.5 | Prerequisite: Passed Algebra I

This is an intensive Java programming course. The Introduction to Computer Science course is a one-semester, introductory programming course and lays the foundation for future work in computer science. Students taking the course are required to take a prerequisite math course of at least Algebra I A. The course focuses on using a programming language to solve problems. Students will be introduced to an object-oriented programming language. They will design and develop programs to be run and tested on the computer. The course introduces students to interactive input and output methods, file input and output, control structures for selection and iteration, assignment statements, math operators. Students are also introduced to Java data types including basic primitive types (int, long, double, char, Boolean) as well as standard classes (string, math, etc.). Students are required to take tests and write between 30 and 50 independent programming assignments in the semester.

Cooperative Education Courses

1431-1432 - Cooperative Education

Grade 10-12 | Credits: 7.5 Per Semester

This program (course) is geared towards students interested in gaining employment within an office setting, retail setting, in trades, or an industrial occupation that does not require prerequisite certifications. Students spend a half-day in school and a half-day on actual on-the-job work experience. Students earn while they learn and, at the same time, prepare for the future either attending college or within the world of work.

Engineering and Technology Education Courses

Mechanical Engineering

1310 - Introduction to Civil Engineering

Introduction to Civil Engineering is a broad introductory course that exposes students to topics directly related to civil engineering, such as structural design, forces in structures, civil engineering materials, fluid mechanics, hydraulics and hydrological systems, and geotechnical and environmental engineering. Civil engineers are problem solvers, meeting the challenges of community planning, water supply, structures, traffic congestion, energy needs, pollution, and infrastructure improvements. High-tech tools such as computer-aided design (CAD) and 3-D

computer modeling are a necessity in all areas of civil engineering. Students will investigate how humans interact with the natural world in the areas of transportation, water supply, environmental protection, and resource management.

1305 - Engineering Capstone Honors

Grades 10-12 | Credits: 5-5 | Prerequisite: See chart above

Engineering Capstone Honors is our highest-level pre-engineering course offered for those students who want to tackle a real-world engineering challenge. Students in this course will work in a team to develop a large-scale engineering project using the skills taught in the prerequisite lower-level courses. Potential projects could involve the exploration of augmented reality, autonomous vehicles, remotely operated underwater/in air vehicles, national engineering competitions, or any other student inspired topic. Projects will be selected prior to enrollment by collaboration with the instructor. As what happens in the professional environment, students will be expected to be part of an engineering team that may include experts in the profession to complete the project they have developed.

1308 - Architectural Design Technology

Grades 10-12 | Credits: 2.5

This course provides students with the experience of designing/renovating their own homes. Using state-of-the-art software, students may digitize their present homes and prepare sketches/drawings to change the look, color, roof design, landscaping, etc. Students do research on numerous rooms, styles of architecture, and various structures around the world. Emphasis is on planning construction, room design, cost analysis, planned unit development, small home design, and solar energy. Each student develops a set of plans consisting of a plot plan, floor plan, elevations, and a perspective drawing of a vacation home.

1307 - Mechanical Engineering II

Grades 10-12 | Credits: 2.5 | Prerequisite: Mechanical Engineering I

In this more advanced course, students continue to utilize industry-standard technologies to engineer solutions to real-world problems. The main topics of study are advanced Computer Aided Drafting (CAD) techniques, understanding dimensioning techniques, sections, pictorials and auxiliary views, revolutions, and assembly of parts. Other areas of study are types of motion, simple machines, fastening techniques, and problem-solving. The course culminates in a collaborative project where the Mechanical Engineering and Electronics Engineering students work together to engineer a solution to a real-world problem. The skills, both soft skills and hard skills, learned in Mechanical Engineering II will prepare students for college and careers.

1302 - Mechanical Engineering I

Grades 10-12 | Credits: 2.5

Through the use of Technology Learning Activities (TLA's), the students will learn problem-solving and design techniques. The problems will include the use of the design loop, computers, and hands-on activities where students will identify a problem, produce a solution, and test the solution. Students will be given the opportunity to develop and construct a project in collaboration with electrical engineering students. This course is an introduction to the basics of graphic language. Communicating through drawings and sketches generated on the computer is essential to many careers in business and industry. The areas of study covered include freehand, mechanical, and computerized instruments in developing drawings. One, two, and three-view drawings are used to explain designs graphically.

Electronics Engineering

1301 - Electronics Engineering I

Grades 10-12 | Credits: 2.5

This course is designed for students who want an introduction to electronics in preparation for further study in electrical engineering, college engineering, or technical school programs. Learn how to build, analyze, and troubleshoot circuits using common tools and components. The course concludes with collaborating with mechanical engineering students on a capstone project such as a simple toy or game, accessory, display or art project, or another practical device.

1303 - Electronics Engineering II

Grades 10-12 | Credits: 2.5 | Prerequisite: Electronics Engineering I

Electronics Engineering II uses the knowledge and skills gained in Electronics Engineering I; Electronics Engineering II incorporates the power of microcontrollers into the equation. Students spend the first quarter exploring the capabilities of what microcontrollers can do and programming them to react to sensors, motors, displays, etc. The course concludes with another collaborative project more elaborate and functional than the first.

1305 - Engineering Capstone Honors

Engineering Capstone Honors is our highest-level pre-engineering course offered for those students who want to tackle a real-world engineering challenge. Students in this course will work in a team to develop a large-scale engineering project using the skills taught in the prerequisite lower-level courses. Potential projects could involve the exploration of augmented reality, autonomous vehicles, remotely operated underwater/in air vehicles, national engineering competitions, or any other student-inspired topic. Projects will be selected prior to enrollment by

collaboration with the instructor. As what happens in the professional environment, students will be expected to be part of an engineering team that may include experts in the profession to complete the project they have developed.

1341 - Game Design

Grades 10-12 | Credits: 2.5

This course will provide a practical introduction to game design and game design concepts, emphasizing the basic tools of game design: paper and digital prototyping, design iteration, and user testing. This course will allow students to spend the quarter learning how to create a basic video game or game content. Students who have an interest in video game design but do not know where to begin should consider taking this course. At the most basic level, students may use 2D game creation software such as Game Maker to look into the mechanics of gaming and the code behind it. There is also the opportunity to explore further and collaborate in groups to create a more advanced game using a game engine and animation software.

Graphic Communication

1316 - Computer Graphics I

Grades 10-12 | Credits: 2.5

Students are introduced to the basic technology of electronic printing and computer graphics. They learn about materials and methodologies used in electronic and desktop publishing. The equipment available includes a network of the newest and fastest Macintosh computers and a 4-color laser printer. Students design and produce a variety of Adobe Photoshop Creative Cloud activities utilizing industry-standard software. Projects include invisible man, postcard text, text and image effects, and custom booklet design.

1317 - Computer Graphics II

Grades 10-12 | Credits: 2.5 | Prerequisite: Computer Graphics I

In this advanced course, there is a greater emphasis on production work in which the skills learned from the previous course are integrated into more complex Photoshop Creative Cloud activities. Projects include duotones, photomontage, low-poly artwork, and photo mosaics. Students may produce material for personal use as well as internal school printing projects. A great emphasis is placed on individual skills where students can design, layout, and produce one-of-a-kind projects for personal portfolios.

1306 - Logo Design & Branding

Grades 10-12 | Credits: 2.5

Logo Design & Branding will explore the core concepts of the design process as it relates to the real world of graphic design careers. Students explore concepts like Typography, Color Theory, Movement, General Aesthetics, and Package Design. The course will delve into the Designer / Client relationship through interviews, research, and collaboration with other students and classes, culminating in a comprehensive, custom Design Brief for their “client”. Students will utilize the Adobe Creative Suite to execute their design ideas, including InDesign, Illustrator, and Photoshop.

1340 - Digital Composition & Illustration

Grades 10-12 | Credits: 2.5

This course will provide students with hands-on experiences in the digital arts through graphic design industry-standard software (Adobe Illustrator & Adobe InDesign). Students will explore various tool sets to complete a wide range of creative and unique documents and vector drawings. No previous graphic design skills are necessary. Even just a limited amount of instruction, combined with some imagination, will yield professional results with a personal touch. The course introduces new areas that will be helpful in future course selection and will add to the student’s overall educational experience.

1311 - Product and Package Development

Grades 10-12 | Credits: 2.5

This course focuses on conceptually based 3-D package design and product graphics within the realm of identity and branding systems as it relates to career paths in graphic design. Projects employ alternative materials and formats. Students develop packaging from initial concept to production and presentation of 3D designs. Typography, photography, and illustration are integrated into complete packaging designs. Various substrates, materials, methods, practices, and production considerations are explored in this course to aid the construction of packaging for a “client.”

1315 - Silk Screen Printing

Grades 10-12 | Credits: 2.5

In this course, students are introduced to the screen-printing process. Students will begin by using various hand-cut techniques for printing images on several different mediums. They soon advance to the process of Photographic Screen Printing preparing images using Macintosh computers and the Adobe Creative Suite of programs. Students will learn the art of printing images on paper, fabric, and decal stickers.

Photography and Video Production

1347 - Video Production I

Grades 10-12 | Credits: 2.5

This course is designed to provide students with the opportunity to acquire and utilize an understanding of the video production process and relate it to careers in business and industry. Students will work in front of the camera as talent, as well as behind the scenes as directors and editors. Camera techniques will be learned, as well as production techniques, including lighting, audio, pre-and post-production, and editing to create videos. This course will bring together skills learned in language arts, business, technology, science, and social studies as students organize, write, and produce scripts for final digital production. Projects range from Autobiographies & Commercials to PSA's and Music Videos.

1349 - Video Production II

Grades 10-12 | Credits: 2.5 | Prerequisite: Video Production I (B or better)

The course is designed to provide students with the opportunity to advance their skills acquired from Video Production I to create professional demonstration reels for personal use or for their portfolio. Students will learn advanced editing techniques in combination with multiple software packages to create projects for live broadcast and DVD. Students will also learn studio lighting, multiple camera shoots, audio mixing, technical directing, and rundown assembly as they increase their live production skills. The course will bring together skills learned in language arts, business, technology, science, and social studies as students organize, write, and produce scripts for video and live television broadcast production.

1350 - Broadcast Media Production

Students who are successful in this course can open the door to a vast number of media-related jobs, some they never realized were a part of social media, television, and other mediums. Opportunities include on-camera or on-air talents, sales, and marketing roles, but students will also have opportunities to learn about Social Media Directors, Engineers, IT techs, videographers, photographers, human resource professionals, business managers, Master Control Operators, promotion Producers, Directors and many other roles related to media.

1304 - Video Production Workshop (New for 2023!)

Grades 10-12 | Credits: 2.5 | Prerequisite: Video Production II

LIGHTS! CAMERA! ACTION! The video production workshop course will allow students to continue to develop advanced skills in the areas of studio and news/broadcast production as well as developing advanced skills in video editing. This course is project-based and will serve to create a college-ready portfolio as they continue to increase their understanding of the

correct use of transitions, effects, sound, and camera angles. This course may be taken multiple times.

1251 - Introduction to Photography

Grades 10-12 | Credits: 2.5

This course introduces the basic principles of photography to beginning students interested in photography as a hobby or a career. Digital and 35MM cameras are analyzed and used. Photographic composition is studied and applied. The basic darkroom techniques, including the process of developing negatives, enlarger operation, and proof sheets are taught. Students also use computer applications such as Adobe Photoshop to enhance shots. Cameras, film, and paper are supplied for the basic assignments.

1252 - Photography Workshop

Grades 10-12 | Credits: 2.5 | Prerequisite: Introduction to Photography

Photography Workshop is a sequential course consisting of levels 2 through 5. Constantly building from the basics, students are introduced to photography accessories: lenses, studio lighting, conceptual images and digital and computer enhancements. Emphasis is placed on photographic techniques of the experts and mastery of shooting and printing.

Science Courses

1113 - Chemistry

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

Chemistry focuses on a qualitative understanding of introductory chemistry concepts. This conceptual chemistry course is designed for students who are still developing their mathematical skills and applying those skills to science content. Topics include atomic theory, radiation, periodic table, bonding, chemical reactions, thermochemistry, acids and bases, and nuclear chemistry. This course emphasizes the application of chemistry to authentic scenarios, so students appreciate the important role that chemistry plays in their lives. Critical thinking, data analysis, group projects and cooperative learning activities are included in this course, along with laboratory activities that enhance the understanding of chemistry concepts. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1114 - Chemistry Accelerated

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

Accelerated Chemistry is designed for students who have exhibited past success in mathematics and science and may continue their study of science in college. This course provides a comprehensive study of the basic concepts of chemistry, which will enhance the student's success in a college chemistry course. Topics include both qualitative and quantitative concepts, such as atomic theory, periodic table trends, bonding, chemical reactions, thermochemistry, kinetic theory of gasses, mole theory and stoichiometry, acids and bases, and nuclear chemistry. Numerous laboratory sessions are provided to enhance understanding of chemistry concepts and theory. Critical analysis of data and problem solving are the major thrusts of this course. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1121 - Chemistry H

Grade 10 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course | Dual-Credit Option

Honors Chemistry is a quantitative approach to the study of the basic concepts of chemistry. The topics of study include atomic theory, periodic table trends, bonding, chemical reactions, mole theory, stoichiometry, gasses, solutions, thermochemistry, kinetics, equilibrium, thermodynamics, acids and bases, and electrochemistry. The major emphasis of Honors Chemistry is on critical thinking and reasoning based on data gathered in laboratory experiences. Problem-solving activities are an integral part of the course. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1128 - Physics

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

This course centers on the conceptual study of physics. Topics include motion, forces, work and energy, momentum, electricity, magnetism, sound, waves, and light. Students will collect data and analyze it qualitatively and graphically to arrive at scientific conclusions. This program includes presentations, projects, small-group work, laboratory investigations, and problem-based and inquiry approaches. Many different learning strategies are employed to assist students of all abilities in developing group skills and scientific knowledge that will prepare them for continued study in the sciences. Students taking Pre-Calculus or Pre-Calculus H should schedule Physics Accelerated. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1127 - Physics Accelerated

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

Accelerated Physics provides a comprehensive study of the basic concepts of Physics. Topics include kinematics, dynamics, momentum, work and energy, electrostatics, circuits, magnetism, wave behavior, sound, and light. Numerous laboratory experiences enhance student understanding of the basic physical concepts which govern the physical universe. All topics involve applying math skills to critical-thinking and problem-solving activities in science, such as the graphical analysis of motion and vector analysis in force problems. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1134 - Physics H

Grade 11 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course | Dual-Credit Option

Honors Physics provides a rigorous mathematical study of physics, including topics such as translational and curvilinear motion, mechanics, momentum, simple harmonic motion, torque, energy, gravitation, electrostatics, circuits, magnetism, wave behavior, light and sound. Mathematical and graphical methods of vector analysis are used to describe and analyze the dynamics of physical phenomena. Students perform mathematical and computer analysis of data during the numerous laboratory activities. The concepts are studied theoretically and in the laboratory to reinforce student understanding. Students will use critical- analysis and problem-solving skills extensively. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

Advanced Placement Electives

1112 - AP Biology

Grade 11 & 12 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course | Dual-Credit Option

AP Biology is a fast-paced course that requires responsible and committed students to spend extensive time and effort in study. Some topics necessitate independent study. In this college-level course, which is designed to prepare students for the AP exam, a college textbook is used and the College Board AP Biology syllabus is followed for topics and laboratories. Areas of study include biochemistry, molecular and cellular biology, energetics, genetics and evolution, principles of taxonomy, plant and animal physiology, and ecology. Non-syllabus labs enrich the analytical approach used in this course. Students are not able to drop AP Biology once the school year begins. Meets NCAA Core Course Requirements.

1126 - AP Chemistry

Grade 11 & 12 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course

AP Chemistry is designed for second-year chemistry students who have high motivation and plan to enter a science-related career. The course provides a rigorous quantitative approach to advanced topics of chemistry in preparation for the Advanced Placement exam in chemistry. The course begins with a review of basic concepts, then progresses to kinetics, equilibrium, electrochemistry, thermodynamics, quantum mechanics, and radioactivity. Numerous laboratory experiences are included in the course. Students who have previously taken Academic Chemistry will have extensive work to complete before starting this course to learn topics not included in their entry-level chemistry course. Students cannot drop AP Chemistry once the school year begins. Meets NCAA Core Course Requirements.

1141 - AP Physics C

Grade 12 | Credits: 7.5 | 2 lab periods | Prerequisites will determine placement into course

AP Physics C is a course for highly motivated science students who are considering a science-related career. This course is a Calculus-based, mathematically rigorous study of physics designed to prepare the student for the AP Physics C examinations in both mechanics and electricity and magnetism. Students gain expertise in the mathematical analysis of physical phenomena that is not possible in a first-year physics course. There is an emphasis on solving sophisticated physics problems. Laboratory experiences are provided to help students understand some of the more abstract concepts. Students who have previously taken Academic Physics will have extensive work to complete before starting this course to learn topics not included in their entry-level physics course. Students cannot drop AP Physics C once the school year begins. Meets NCAA Core Course Requirements.

1144 - AP Environmental Science

Grades 11 & 12 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course

The goal of AP Environmental Science is to equip students with the scientific knowledge necessary for understanding the interrelationships in the natural world. This course provides students with the skills necessary to analyze environmental problems and the relative risks associated with human changes to natural ecosystems. Students will also examine alternative solutions to solving these problems. AP Environmental Science is an interdisciplinary course that incorporates scientific principles from earth science, biology and chemistry, in addition to aspects of social studies, as they relate to the study of the environment. Students in this course are expected to attend several field trips that take place during school hours. Students cannot drop AP Environmental Science once the school year begins. Meet NJ Graduation Requirements. Meets NCAA Core Course Requirements.

Science Electives

1101 - Marine Biology

Grade 10-12 | Credits: 2.5 | Semester Course | Prerequisites will determine placement into course

Marine Biology focuses on the study of marine ecosystems with specific emphasis on the ecology of the Atlantic coastal waters. This course involves the study of physical and chemical processes and their influence on the distribution and abundance of marine organisms. Specific ecosystems include coral reefs, kelp forests, rocky intertidal, estuaries, deep sea, and sandy beaches. Students are introduced to vertebrates and invertebrates that inhabit these ecosystems, such as fish, marine mammals, mollusks, cnidarians, poriferans, arthropods, and echinoderms. The impact of humans on these natural ecosystems is also studied. In addition, students explore career options in the field of marine sciences and are expected to participate in multiple field trips. Meets NCAA Core Course Requirements.

1103 - Environmental Science

Grade 10-12 | Credit: 5 | Prerequisites will determine placement into course

Environmental Science is a full year lab class that will meet six times each week. Students will utilize concepts from earth, chemistry, physics and life science fields to investigate phenomena relating to interactions between living and nonliving elements in the environment. The course will be made up of four thematic units: energy, atmosphere and climate, marine science, and geology. Students will learn through an inquiry approach and attempt to develop solutions to complex environmental issues. Understanding will be demonstrated through completing group

work, lab investigations, engineering and design projects, presentations, and case studies. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1104 – Science, Engineering, and Public Policy

Grade 10-12 | Credits: 2.5 | Semester Course

This non-lab science course involves investigating current scientific topics and events as they happen and exploring the policies and laws that govern science on the global stage. Students will learn how societies around the world fund and promote science and technology to improve health, provide energy and food, and help foster new industries and jobs. The course also investigates how science and technology are used to inform and debate policymaking in fields such as environmental policy and health policy, and the roles that scientists, engineers, and other experts play in providing scientific and technical information to the public and to policy-makers. Meets NCAA Core Course Requirements.

1105 - Astronomy

Grade 10-12 | Credits: 2.5 | Semester Course

This is a course designed to give students a basic understanding of the structure of the universe, the structure and behavior of the objects that make up the universe and the earth's relationship to the other objects in our solar system. It includes a detailed study of the planets, the sun and the moon. Modern observational and measurement methods used by astronomers are investigated. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1106 - Meteorology

Grade 10-12 | Credits: 2.5 | Semester Course

This is a course designed to give students a basic understanding of weather patterns and their causes. The students observe weather and cloud formations, rain, snow, sleet, and wind. The causes and effects of major storms and the instruments used to measure and predict weather are examined. Major aspects of the course include the prediction of tornadoes, hurricanes, and other weather conditions. Students engage in weather forecasting, collecting daily weather data, and preparing and decoding the daily weather map. Weather data, which is computer generated, is also analyzed by students. Meets NJ Graduation Requirements. Meets NCAA Core Course Requirements.

1108 - Human Biology

Grade 11 & 12 | Credits: 2.5 | Semester Course | Prerequisites will determine placement into course

Human Biology involves introducing students to human biology. Students will investigate the interactions between body systems; they will see how body organs work individually and

collectively to maintain an internal homeostasis and overall health. The course explores the human body systems through a combination of dissection, practical laboratory exploration, and alternative assessments. Meets NCAA Core Course Requirements.

1130/1131 - Forensic Science I & II

Grades 10-12 | Credits: 2.5 | Semester Course | Prerequisites will determine placement into course

Students in this course learn the fundamentals of a criminal investigation and how it is used in a court of law. All sessions include crime scene analysis, evidence collection, and case studies. Each quarter will focus on specific analytical techniques that could include fingerprinting, ballistics, explosives, arson, DNA, blood spatter, hair, fiber, handwriting analysis, forensic anthropology, and toxicology. By stepping into the role of the forensic scientist, students learn and apply numerous scientific strategies and skills.

1140 - Molecular Biology Lab Techniques

Grade 10-12 | Credits: 2.5 | Semester Course | Prerequisites will determine placement into course

Students in this semester course get an introduction to using molecular biology laboratory protocols, such as DNA purification, PCR, restriction digests, and agarose gel electrophoresis, to isolate and analyze DNA samples. This course is a prerequisite for the Waksman Student Scholars Program (course 1142) where students conduct a molecular biology research project.

1142/1145 - Research and Seminars in Biological Science H I & II

Grades 11 & 12 | Credits: 5 | Prerequisites will determine placement into course

Research and Seminars in Biological Science H allows students to participate in the Waksman Student Scholars Program. The Waksman Student Scholars Program provides opportunities for students to conduct an authentic research project in molecular biology and bioinformatics. Students use molecular biology laboratory techniques to isolate and analyze DNA samples. The goal is for students to analyze, and possibly publish, a DNA sequence. Note that this program is affiliated with Rutgers University, which sets course requirements and limitations. This course can be taken more than once in a High School career; qualified students take on leadership roles as they progress in the program. Students who want to enroll in this course must have previously taken the Molecular Biology Lab Techniques elective.

Research and Seminars in Biological Science H II is for seniors who are taking a second year of the course. Meets NCAA Core Course Requirements.

1143 - Anatomy and Physiology H

Grades 11 & 12 | Credits: 7.5 | Semester Lab Period | Prerequisites will determine placement into course | Dual-Credit Option

Anatomy and Physiology is designed to introduce students to the structure and function of the human body. The scope of the course includes topics such as animal cell structure and biochemistry, tissue organization and function, and mammalian organs and organ systems as they relate to human biology. Extensive laboratory work, including a major mammalian dissection, is required. The course provides a strong background for students entering careers such as nursing, medical technology, and sports medicine. Meets NCAA Core Course Requirements.

Social Studies Courses

1073 - U. S. History I

Grades 10-12 | Credits: 5

This course covers American History from the American Revolution through World War II and addresses the major political, economic, and social events and issues for those periods. This course has been modified from the 8th and 9th grade curricula to meet the state requirements at the high school. Meets NCAA Core Course Requirements.

1077 - AP World History: Modern

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

AP World History is designed to be the equivalent of an introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in historical periods addressing from approximately 1200 CE to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. Meets NCAA Core Course Requirements.

**Note: For students who need to fulfill their first year of the state requirement in U. S. History, the following course is offered to tenth, eleventh, and twelfth graders.

1052 - World History/World Cultures H

Grade 11 | Credits: 5 | Prerequisites will determine placement into course

This is an intensive and challenging study of modern world history and world cultures designed for highly motivated students. In addition to the content described above, there are activities requiring extensive contemporary readings, independent research, writing, and group discussions. Meets NCAA Core Course Requirements.

1051 - World History/World Cultures

Grade 11 | Credits: 5

This course is designed to acquaint students with modern world history and world cultures, with an emphasis on the post-World War II era. Students examine post-World War II anti-colonial revolutions and global issues, such as poverty, hunger, international trade, and technology that affect all of us in this age of escalating global interdependence. The course begins with a survey of World History from 1800 to the Cold War. This sets the stage for a regional study of the world, including Asia, Latin America, Africa, Europe, and the Middle East. World geography is an important component of the course. Meets NCAA Core Course Requirements.

1072 - AP United States History

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

AP United States History is a college-level course designed to prepare students for the AP exam. Students develop analytic skills and factual knowledge for an understanding of the colonial period, the American Revolution, the Jacksonian period, the Civil War and Reconstruction, populism and progressivism, the New Deal, World Wars I and II, international affairs and domestic change in the post-1945 period up to the present. The work requires in-depth reading of primary documents, essays, periodicals and the text. Students are expected to demonstrate mastery and understanding by presenting written essays on the aspects of the period under study. Students are encouraged to take the Advanced Placement examination. Meets NCAA Core Course Requirements.

1071 - U. S. History II H

Grade 10 | Credits: 5 | Prerequisites will determine placement into course

This course covers the administrations of major 20th and 21st century Presidents, significant social and cultural changes and such key topics as the Cold War, McCarthyism, the Civil Rights movement, the Vietnam War, the space race, Watergate crisis, the end of the Cold War, and the modern era. This course is for motivated students interested in studying the course material in greater depth through independent research, writing and group discussion. Meets NCAA Core Course Requirements.

1070 - U. S. History II

Grade 10 | Credits: 5

This course covers the administrations of major 20th and 21st century Presidents, significant social and cultural changes and such key topics as the Cold War, McCarthyism, the Civil Rights movement, the Vietnam War, the space race, Watergate crisis, the end of the Cold War, and the modern era. Meets NCAA Core Course Requirements.

Social Studies Electives

1060 - Economics

Grades 10-12 | Credits: 2.5

Economics is a social science that examines production, consumption and transfer of wealth (money and currency). This course deals primarily with economic vocabulary and answers the following questions: what is economics, what taxes go towards, what attributes to the changes in the business cycle, and how elasticity is applied to supply and demand. This course examines numerous topics such as supply & demand, investment opportunities, the relationship between price changes and the market, various market structures, GDP, labor and economic growth/recession (business cycle) just to name a few. Students will take part in a variety of activities including the stock market game, entrepreneur project, company pitch presentation, hypotheses of product prices and more. The course does require students to present in front of the class both individually and as a part of a group as well as exercising a basic understanding of mathematics. Meets NCAA Core Course Requirements.

1066 - Law in Society

Grades 10-12 | Credits: 2.5

This course examines the application of law throughout American society. Students will examine topics that include: civil law, hate crimes, constitutional law, the Bill of Rights, the role of Supreme Court justices, and students' rights.

1065 - Criminal Justice in America

Grades 10-12 | Credits: 2.5

This course begins with a historical overview of the origins and development of our legal system. Students will examine topics that include: preliminary crimes, corrections, police use of force, elements of crime, the arguments of self-defense and insanity, along with a look at juvenile justice. Meets NCAA Core Course Requirements.

XXXX - IT Support and Careers Workshop

Grade 10-12 | Credits: 2.5

Technology is integrated into all of our lives and, by extension, into virtually all industries and career paths. In this course, students will learn and practice skills in professionalism, customer service, communication, and IT management. In addition, students of all academic levels will be able to gain real-world skills while exploring career paths in IT and customer service. Also, students will gain further appreciation and awareness of the structures, best practices and professional ethics involved in working in IT in increasingly complex and diverse public sector workplaces and private businesses and organizations. Course code to be determined.

1078 - Vietnam: A Time of Turmoil and Change

Grades 10-12 | Credits: 2.5

The Vietnam War was the most controversial and divisive American conflict of the 20th century. Unfortunately, it is often the most misunderstood. This course examines the background of Vietnamese history and culture, the political and military history of the war, and the conflicts the war created at home. The course will investigate and analyze all the controversies associated with the war; the major personalities and policymakers, the strategies and tactics implemented, and the experiences of those who fought- both American and Vietnamese. Lastly, the course examines how the Vietnam War shaped and influenced the culture of the 1960s and beyond. Meets NCAA Core Course Requirements.

1068 - Independent Learning Workshop: Choose Your Own Adventure

Grades 10-12 | Credits: 2.5

Have you ever wished you had time to dig deep into a topic or project, learn all about it and create something awesome? This is your chance. In this course students will discover how to find the information they need to pursue a specific interest, and use that information to create, collaborate and teach others about their passion, whether it's knitting, anime, or molecular biology. Don't know what that passion is yet? Figuring it out is part of the process. In this course students will investigate their interests and then choose a specific topic, project, or skill to learn or explore. Students will document the process of discovering, proposing and planning their project using digital tools to research, journal, collaborate, and present their work, developing real-world skills for project management, communication and presentation. Digital citizenship and trending social media dynamics will also be considered. In this hybrid course students will work independently about eighty percent of each week, with teachers available at all times to guide and support them as needed.

1056 - Psychology I

Grades 10-12 | Credits: 2.5

Psychology is the study of the human mind. This course examines topics such as how we perceive the world, personality development theories, self-esteem, altered states of consciousness, sleep, dreams, birth order, personalities, moral development, and other concepts. By providing insights into human behavior, the course is designed to increase understanding of why people behave as they do. Meets NCAA Core Course Requirements

1061 - Psychology II H

Grades 10-12 | Credits: 2.5 | Prerequisite: Psychology I | Dual-Credit Option

This course provides additional knowledge of psychology through an examination of such topics as the workings of the brain and nervous system, learning and memory theories, and

enhancing memory. Stress-related topics and abnormal psychology issues like anxiety disorders, depressive disorders, eating disorders and obsessive-compulsive disorders are studied. Psychology II H is currently aligned to Middlesex County College and we anticipate that students will have the opportunity to earn college credits in this course. Meets NCAA Core Course Requirements.

1057 - Sociology I

Grades 10-12 | Credits: 2.5

Sociology is the study of human society and social behavior. This course deals primarily with culture and social values in primitive and modern societies, group behavior, social inequality, social institutions, and the individual in society. Topics covered include rites and rituals, adolescence, social deviance, sanctions, collective behavior and social movements. The course includes a variety of teaching methods: debates, socio-dramas, pantomime, popular films, music, television, surveys, and interviews. Meets NCAA Core Course Requirements.

1079 - Sociology II H

Grades 10-12 | Credits: 2.5 | Prerequisite: Sociology I

This course provides additional knowledge of sociology by building upon the topics covered in Sociology I. The major focus of the class will be to examine research methods, deviance, social control, collective behaviors, social change, the environment, and special career fields in sociology. The class will include research, group projects, cooperative activities, field trips and guest speakers. Meets NCAA Core Course Requirements.

1063 – Nazi Germany and the Holocaust H

Grades 10-12 | Credits: 2.5

This course will examine the Nazi party in Germany and how its rise resulted in widespread discriminatory practices culminating in the largest mass murder in human history. Specifically, students will study in-depth Nazi anti-Semitic policy, life in the Jewish ghettos, the horrors of the death camps, and rescue and resistance efforts throughout the Holocaust. Meets NCAA Core Course Requirements.

1064 - Genocide in the Modern World H

Grades: 10-12 | Credits: 2.5 | Dual-Credit Option

Genocide: the systematic destruction of a national, ethnic, racial or religious group. It is the most severe and horrifying of all human crimes. This course examines in detail the background, issues, events, and implications of some of the world's darkest chapters. This course will investigate selected topics such as Japanese crimes against humanity in WWII, the genocidal policies of Joseph Stalin in the USSR, the Holocaust, and genocide in Rwanda, Bosnia,

Cambodia, Iraq, Armenia and Darfur. Students will analyze various ideologies and mechanisms that culminate in genocide and will examine the roles of collaborators, bystanders, rescuers, and the psychology of both perpetrators and victims. The course will also analyze the role and effectiveness of international law and the United Nations in preventing genocide and bringing perpetrators to justice. Genocide in the Modern World H is currently aligned to Middlesex County College and we anticipate that students will have the opportunity to earn college credits in this course. Meets NCAA Core Course Requirements.

1075 - International Studies Honors (Fall)

Grades: 10-12 | Credits: 2.5 | Hybrid Course; Criteria: Students must audition for admittance

There will be costs associated with this course for attendance at Model United competitions. This course is an independent study program and considered a hybrid class where students will interact with the teacher in person and on an online platform. Participants must meet after school for no less than twice each week (on average) during the semester, and they must agree to prepare for and to attend Model United Nations simulation activities. Participants accept roles as delegates to various U. N. agencies. They represent assigned countries which are member states in the U.N. At after school meetings they discuss strategies and coordinate research with assigned partners. They are tested on economic, political and geographic information on their "adopted" country, its region and its impact on international diplomacy. Model U. N. Conferences are four-day three-night total immersion/simulation activities. At these Model United Nations Conferences, high school students spend sixty (60) hours on task in debate, caucus, and writing U. N. style resolutions. Meets NCAA Core Course Requirements.

1076 - International Studies Honors (Spring)

Grades: 10-12 | Credits: 2.5 | Hybrid Course; Criteria: Students must audition for admittance

There will be costs associated with this course for attendance at Model United competitions. This course is an independent study program and considered a hybrid class where students will interact with the teacher in person and on an online platform. Participants must meet after school for no less than twice each week (on average) during the semester, and they must agree to prepare for and to attend Model United Nations simulation activities. Participants accept roles as delegates to various U. N. agencies. They represent assigned countries which are member states in the U. N. At after school meetings they discuss strategies and coordinate research with assigned partners. They are tested on economic, political and geographic information on their "adopted" country, its region and its impact on international diplomacy. Model U. N. Conferences are four-day three-night total immersion/simulation activities. At these Model United Nations Conferences, high school students spend sixty (60) hours on task in debate, caucus, and writing U. N. style resolutions. Meets NCAA Core Course Requirements.

1419 - International Business and Politics H

Grades 10-12 | Credits: 2.5

This course is offered for students who are interested in global economics and international trade. Among the topics covered are global trade patterns, political and cultural influences on the business climate, trading blocs, trade agreements, international finance, foreign exchanges, commodities exchanges, the geography of global resource allocation and use, and customs, tariffs and taxes. Computer research assists students in solving problems and simulations associated with the complex world of global trade and economic interdependence. Meets NCAA Core Course Requirements.

1054 - Institute for Political and Legal Education (IPLE) I H

Grades 10-12 | Credits: 5| Dual-Credit Option

This course is designed to provide an in-depth study of our Constitution, Bill of Rights and Federal system of government. Students will gain practical experiences and knowledge through the study and use of the procedures and techniques of local, county, state, and federal governments and courts. Students act as Senators and Representatives of the U. S. Congress, using parliamentary procedure and debating legislation they prepare for a three-day Model Congress. Course requirements include research projects, outside reading assignments, and considerable practice in giving oral presentations. This course is currently aligned to Middlesex County College and we anticipate that students will have the opportunity to earn college credit. Meets NCAA Core Course Requirements.

1055 - AP Institute for Political and Legal Education II

Grade 12 | Credits: 5 | Prerequisites will determine placement into course

This course offers our students the opportunity to compete against their peers from across the state with the hopes of representing New Jersey at the prestigious “We the People” competition in the spring. If students advance in the competition, there will be costs associated with later rounds. The AP Institute for Political and Legal Education focuses on the Center for Civic Education's Competition on the Constitution. Students commit to participating in the competition, which involves learning a curriculum based on the Constitution, its creation and implementation, the importance of rights in our system of government and the future of the Constitution and its interpretation. Students will participate in extensive research and analysis as well as preparation for the oral competition. The competition is based on group presentations. Students will also follow an AP American Government curriculum with an expectation of participation in the AP American Government Examination. Meets NCAA Core Course Requirements.

1053 - AP Macroeconomics

Grades 11-12 | Credits: 5 | Prerequisites will determine placement into course

This course is intended for students seeking an in-depth understanding of macroeconomic issues and principles usually involving large institutional players like commercial banks, the Federal Reserve, and the Federal government. An ability to work with statistics and graphs is also critical to an in-depth understanding of topics. It will prepare students for the spring administration of the AP Macroeconomics examination. Topics will include measurements of economic health and performance (inflation, unemployment, GDP growth, and price indices), aggregate supply and demand, national income and wealth, monetary policy and the role of the Federal Reserve and the banking system, financial markets and exchange rates, productivity, international trade and balance of payments. Meets NCAA Core Course Requirements.

1067 - AP Psychology

Grades 11-12 | Credits: 5 | Prerequisites will determine placement into course

This course is offered to students who wish to complete an introductory level college course in psychology while still in secondary school. AP Psychology introduces students to the systematic and scientific study of the behavior and mental processes of human beings. Students learn about ongoing research and the most current data in all major subfields within psychology. The course also covers a variety of topics, such as testing methods, social psychology, abnormal psychology, the treatment of psychological disorders and many others. Students are required to enhance their writing skills by responding to free-response format questions. Meets NCAA Core Course Requirements.

1074 - AP European History

Grade 12 | Credits: 5 | Prerequisites will determine placement into course

This college-level course is designed to prepare students for the Advanced Placement exam. The course provides students with knowledge of major themes in European history from approximately 1450 to 2010 – from the high Renaissance to the present. Students will develop an ability to analyze historical evidence through primary source documents, works of art, religious philosophy, and enlightenment thinking. This course is not a repeat of World History. Meets NCAA Core Course Requirements.

World Language Courses

Spanish

1787 - World Cultures

Grade 10-12 | Credits: 5

This course is designed to introduce students to the Spanish language and culture. World Cultures emphasizes very simple vocabulary applied in real-life scenarios so that students can speak and understand the language at the most basic level within predictable areas of need. Spanish culture is introduced to students through functional life-skills instruction, as the students will be performing daily tasks and learning corresponding Spanish vocabulary.

1230 - Spanish I

Grade 10 – 12 | Credits: 5

This course is activity-centered with emphasis on speaking and listening. Spanish is in constant use in the classroom. The focus is on building a working vocabulary, including common idioms and phrases. Students learn words and very basic and relevant grammatical structures. Teachers also introduce elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is Spanish. Meets NCAA Core Course Requirements.

1231 - Spanish II

Grade 10 – 12 | Credits: 5

Spanish II further develops the basic language skills with emphasis on communication in the language, thus enabling students to apply what they have learned. Teachers give students the opportunity to improve their ability to communicate effectively in new situations that they are likely to encounter in Spanish-speaking countries. While students learn language, they are simultaneously learning Spanish culture. Meets NCAA Core Course Requirements.

1232 - Spanish III

Grade 10 – 12 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. The instruction in this course is oriented toward the development of students' more complete control of the communicative functions and structures addressed in previous levels. Students communicate meaning in realistic situations. Teachers embed student learning with multicultural patterns found in the Spanish language and cultural traditions. Students develop

skills in the areas of listening, speaking, reading and writing the Spanish language. They also deepen their cultural understanding of the Spanish-speaking world. Meets NCAA Core Course Requirements.

1233 - Spanish IV

Grade 10 – 12 | Credits: 5

Spanish IV continues the practical use of language while expanding language skills. Videos, oral presentations and outside readings are a part of the course. Teachers review grammatical principles in oral and written work and they provide opportunities for the development of a deeper understanding of the Spanish cultures. Meets NCAA Core Course Requirements.

1235 - Spanish IV H

Grade 10 – 12 | Credits: 5

This is a vigorous course designed for the serious student of Spanish. Spanish IV Honors differs from Spanish IV in that students study the language in greater depth. Videos, oral presentations and outside readings are a regular part of the course. Students complete special projects designed to increase and demonstrate their Spanish linguistic and cultural proficiency. Students who meet the prerequisites and who plan to take the Advanced Placement test in subsequent years are encouraged to consider this course. Meets NCAA Core Course Requirements.

1237 - Spanish V

Grade 10 – 12 | Credits: 5 | Dual-Credit Option

This course is for students who are not interested in preparing for the Advanced Placement exam, but who want to increase their language proficiency and continue their study of Spanish culture. Videos, oral presentations, outside readings and interactive activity are a regular part of the course. Within the relevant context, students learn structures needed to discuss, comprehend and compose. Readings from Spanish-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1238 - Spanish V H

Grade 10 – 12 | Credits: 5 | Dual-Credit Option

This course is for students who want to increase their language proficiency and continue their study of Spanish culture. Spanish V H differs from Spanish V in that the students study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Advanced grammatical structures needed to discuss, comprehend, and compose are taught in context. Readings of works from Spanish-speaking countries serve as a springboard for discussion and compositions. Students complete special

projects designed to increase and demonstrate their Spanish proficiency. Students who plan to take the Advanced Placement course the following year are encouraged to consider this course. Meets NCAA Core Course Requirements.

1239 - Spanish VI

Grade 11 – 12 | Credits: 5

This course, a sequel to Spanish V, is designed for students who are interested in the Spanish language and culture without the rigors of Honors or AP. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Within the relevant context, students learn structures necessary to discuss, comprehend and compose. Readings from Spanish-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1240 - Spanish VI H

Grade 11 – 12 | Credits: 5 | Dual-Credit Option

This course, a sequel to Spanish V H or AP, is designed for students who wish to continue their study of Spanish language and cultures in countries where Spanish is spoken. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. The pace of this class is more rigorous than Level VI. Within the relevant context, students learn advanced structures necessary to discuss, comprehend and compose. Readings from Spanish-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1890 - Spanish for Business H

Grades 11 - 12 | Credits: 5

This course will introduce students to the opportunities available using Spanish in the business world and develop their skills to be successful in this environment. Students will study marketing, international commerce, negotiations, business plans, interpreting business documents and interviewing techniques. Spanish for Business Honors will provide students with real world use of Spanish. This course will develop students' Spanish proficiency interpreting information, communicating interpersonally and presenting information.

1891 - Spanish for the Medical Profession H

Grades 11 - 12 | Credits: 5

This course will develop students' Spanish proficiency interpreting information, communicating interpersonally and presenting information at the pre-advanced level of the K-12 proficiency guidelines as defined by the American Council of the Teaching of Foreign Languages. This

course will develop students' understanding of the use of Spanish in the public health and medical professions.

1242 - AP Spanish Language and Culture

Grade 11 - 12 | Credits: 5 | Dual-Credit Option

This demanding course covers the equivalent of the third-year college course in advanced Spanish composition and conversation. There is a focus on advanced oral, listening, reading and grammatical skills. This course prepares the students for the Advanced Placement exam through intensive practice in hearing formal and informal Spanish, inviting expository passages, and in reading material from a wide range of literary sources. This course is a prerequisite for A.P. Spanish Literature. Meets NCAA Core Course Requirements.

French

1200 - French I

Grade 10 | Credits: 5

Open to all students, the course is activity-centered with an emphasis on speaking and listening. French is in constant use in the classroom. Students build working vocabulary, including common idioms and phrases. Students begin to learn words, phrases and grammatical structures. Students also learn elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is French. Meets NCAA Core Course Requirements.

1201 - French II

Grade 10 | Credits: 5

French II further develops the basic language skills with emphasis on communication in the language, thus enabling students to apply what they have learned. Students have the opportunity to continue in the progressive ability to communicate effectively in new situations that students will encounter in French-speaking countries. Study of French culture in language practice is part of every lesson. Meets NCAA Core Course Requirements.

1202 - French III

Grade 10 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented toward the development of students' more complete control of the communicative functions and structures addressed in previous levels. Students communicate meaning in realistic situations and carry out functions with multicultural patterns found in the

French language and cultural traditions. Skills in the areas of interpreting information, communicating interpersonally and presenting information as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

1203 - French IV

Grade 11 | Credits: 5

French IV continues the situational/practical use of language while expanding language skills. Videos, oral presentations and outside readings are a regular part of the course. Students review grammatical principles as they relate to oral and written work. Students have opportunities for the development of a deeper understanding of the target culture. Meets NCAA Core Course Requirements.

1204 - French IV H

Grade 11 | Credits: 5

This is a vigorous course designed for the serious student of French. French IV H differs from French IV in that students study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students complete special projects designed to increase and demonstrate their French proficiency. Students who meet the prerequisites and who plan to take the Advanced Placement test in subsequent years are encouraged to consider this course. Meets NCAA Core Course Requirements.

1205 - French V

Grade 10, 12 | Credits: 5

This course is for students who are not interested in preparing for the Advanced Placement exam at this time, but who want to increase their language proficiency and continue their study of French culture. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn structures needed to discuss, comprehend and compose in context. Readings of works from French-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1206 - French V H

Grades 10, 12 | Credits: 5 | Dual-Credit Option

This course is for students who want to increase their language proficiency and continue their study of French culture. French V H differs from French V in that the students study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced grammatical structures needed to discuss, comprehend and compose in context. Readings of works from French-speaking countries serve as a springboard for discussion and compositions. Students complete special

projects designed to increase and demonstrate their French proficiency. Students who plan to take the Advanced Placement course the following year are encouraged to consider this course. Meets NCAA Core Course Requirements.

1208 - French VI

Grades 11, 12 | Credits: 5

This course, a sequel to French V, is designed for students who are interested in the French language and culture without the rigors of Honors or AP. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Within the relevant context, students learn structures necessary to discuss, comprehend and compose. Readings from French-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1207 - French VI H

Grades 11, 12 | Credits: 5 | Dual-Credit Option

This course, a sequel to French V H or AP, is designed for students who wish to continue their study of French language and cultures in countries where French is spoken. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. The pace of this class is more rigorous than Level VI. Within the relevant context, students learn advanced structures necessary to discuss, comprehend and compose. Readings from French-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1226 - French for Business H

Grades 11, 12 | Credits: 5

This course will introduce students to the opportunities available using French in the business world and develop their skills to be successful in this environment. Students will study marketing, international commerce, negotiations, business plans, interpreting business documents and interviewing techniques. French for Business Honors provides students with real world use of French. This course will develop students' French proficiency interpreting information, communicating interpersonally and presenting information.

1209 - AP French Language and Culture

Grades 11, 12 | Credits: 5 | Dual-Credit Option

This demanding course covers the equivalent of a third-year college course in advanced French composition and conversation stressing advanced oral, listening, reading and grammatical skills. Students prepare for the Advanced Placement exam through intensive practice in hearing

formal and informal French, in writing expository passages, and in reading material from a wide range of literary sources. Meets NCAA Core Course Requirements.

German

1210 - German I

Grade 10 - 12 | Credits: 5

Open to all students, this course is activity-centered with emphasis on speaking and listening. German is in constant use in the classroom. Students build working vocabulary, including common idioms and phrases and begin to learn precision in the use of words and grammatical structures. Students also learn elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is German. Meets NCAA Core Course Requirements.

1211 - German II

Grade 10 – 12 | Credits: 5

German II further develops the basic language skills with emphasis on communication in the language thus enabling students to apply what they have learned. Teachers give students the opportunity to continue in the progressive ability to communicate effectively in the new situations that they will encounter in German-speaking countries. Study of German culture is part of language practice. Meets NCAA Core Course Requirements.

1212 - German III

Grades 10 – 12 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed earlier. Students communicate meaning in realistic situations and use multicultural patterns found in the German language and traditions. Skills in the areas of listening, speaking, reading and writing the German language, as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

1213 - German IV H

Grades 10 – 12 | Credits: 5

German IV H provides students the opportunity to study the spoken and written language in greater depth. Videos, oral presentations and outside readings are a regular part of the course. Students complete special projects designed to increase and demonstrate their German proficiency. This course is for students who want to increase their language proficiency and

continue their study of German culture. German IV H provides students the opportunity to study the language in greater depth. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced grammatical structures needed to discuss, comprehend and compose within context. Readings of works from German-speaking countries serve as a springboard for discussion and compositions. Students complete special projects designed to increase and demonstrate their German proficiency. Meets NCAA Core Course Requirements.

1214 - German V H

Grades 10 – 12 | Credits: 5 | Dual-Credit Option

This course is for students who want to increase their language proficiency and continue their study of German culture. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced grammatical structures needed to discuss, comprehend and compose in context. Readings of works from German-speaking countries serve as a springboard for discussion and compositions. Students complete special projects designed to increase and demonstrate their German proficiency. Students who plan to take the Advanced Placement course in a subsequent year are encouraged to consider this course. Meets NCAA Core Course Requirements.

1223 - German VI H

Grades 10 – 12 | Credits: 5 | Dual-Credit Option

This course is for students who want to increase their language proficiency and continue their study of German culture. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced grammatical structures needed to discuss, comprehend and compose in context. Readings of works from German-speaking countries serve as a springboard for discussion and compositions. Students complete special projects designed to increase and demonstrate their German proficiency. Students who plan to take the Advanced Placement course in a subsequent year are encouraged to consider this course. Meets NCAA Core Course Requirements.

1224 - Germany in the 21st Century Honors

Grades 11, 12 | Credits: 5

This course will examine the influence of 21st Century Germany on the world stage, preparing students for global citizenship. Students will develop abilities in interpretive, interpersonal and presentational modes of communication. They will use German in meaningful contexts in a variety of activities. Course materials include videos, short articles, movies, statistics, podcasts, advertisements and songs, providing students with varied perspectives on German business, pop-culture, STEM, and current events. Meets NCAA Core Course Requirements.

1225 – Contemporary German Issues Honors

Grades 11, 12 | Credits: 5

This course will examine contemporary issues in Germany. It is for students who want to deepen their language and cultural proficiency. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced structures necessary to discuss, comprehend and compose in context. Readings from German-speaking countries serve as a springboard for discussion and compositions. Course materials include videos, short articles, movies, statistics, podcasts, advertisements and songs. Meets NCAA Core Course Requirements.

1215 - AP German Language and Culture

Grades 11, 12 | Credits: 5 | Dual-Credit Option

This demanding course covers the equivalent of the third-year college course in advanced German composition and conversation. There is a focus on stressing advanced oral, listening, reading and grammatical skills. This course prepares the students for the Advanced Placement exam through intensive practice in hearing formal and informal German, inviting expository passages, and in reading material from a wide range of literary sources. Meets NCAA Core Course Requirements.

Italian

1216 - Italian I

Grade 10 | Credits: 5

Open to all students, this course is activity-centered with emphasis on speaking and listening. Italian is in constant use in the classroom. The building of a working vocabulary, including common idioms and phrases, is very important. Teachers also introduce precision in the use of words and grammatical structures. Students also learn elementary principles of reading and writing. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is Italian. Meets NCAA Core Course Requirements.

1217 - Italian II

Grades 10-12 | Credits: 5

Italian II further develops the basic language skills with emphasis on communication in the language, thus enabling students to apply what they have learned. Students have the opportunity to continue in the progressive ability to communicate effectively in new situations that they will encounter in Italian-speaking countries. Study of Italian culture is part of language practice. Meets NCAA Core Course Requirements.

1218 - Italian III

Grade 10 | Credits: 5

Students have the opportunity to enhance the language skills learned in levels one and two. Instruction is oriented towards the development of students' more complete control of the communicative functions and structures addressed in the previous levels. Students communicate meaning in realistic situations and carry out functions that teachers embed with multicultural patterns found in the Italian language and traditions. Skills in the areas of listening, speaking, reading and writing the Italian language, as well as cultural understanding, are developed. Meets NCAA Core Course Requirements.

1219 - Italian IV H

Grades 9, 11 | Credits: 5

Readings, oral presentations and videos are a regular part of the Italian IV H course. It continues situational and practical use of language while expanding language skills. Students review and apply grammatical principles in oral and written work. Opportunity for the development of a deeper understanding of the target culture is part of every lesson. Meets NCAA Core Course Requirements.

1220 - Italian V H

Grades 10, 12 | Credits: 5 | Dual-Credit Option

This course is for students who want to increase their language proficiency and continue their study of Italian language and culture. Readings, oral presentations, videos and interactive activities are a regular part of the course. Students learn structures needed to discuss, comprehend and compose in context. Readings of works from Italian-speaking countries serve as a springboard for discussion and compositions. Students who plan to take the Advanced Placement course the following year are encouraged to consider this course. Meets NCAA Core Course Requirements.

1221 - Italian VI H

Grades 11, 12 | Credits: 5 | Dual-Credit Option

This course, a sequel to Italian V H or AP, is designed for students who wish to continue their study of Italian language and cultures in countries where Italian is spoken. Videos, oral presentations, outside readings and interactive activities are a regular part of the course. Students learn advanced structures necessary to discuss, comprehend and compose within cultural context. Readings from Italian-speaking countries serve as a springboard for discussion and compositions. Meets NCAA Core Course Requirements.

1247 - Made in Italy: Food, Fashion and STEAM H

Grades 11, 12 | Credits: 5 | Availability Based on Sufficient Enrollment

This course, a sequel to Italian VI H or AP, is designed for students who wish to continue their study of Italian language and cultures in countries where Italian is spoken. This course will examine the influence of the Made-in-Italy brand, a symbol of some of the most coveted foods and products from around the world. This course will tour the various regions of Italy and examine the foods, products and businesses for which they are most famous. It will give students a good understanding of the businesses that revolve around Italian products both in the United States and in Italy and help prepare them for careers in the USA where knowledge of Italian language and culture is important. Meets NCAA Core Course Requirements.

1222 - AP Italian Language and Culture

Grades 11, 12 | Credits: 5 | Dual-Credit Option

This demanding course covers the equivalent of the third-year college course in advanced Italian composition and conversation. It stresses advanced oral, listening, reading and grammatical skills. This course prepares the students for the Advanced Placement exam through intensive practice in hearing formal and informal Italian, inviting expository passages, and in reading material from a wide range of literary sources. Meets NCAA Core Course Requirements.

Mandarin

1227 - Mandarin I

Grade 10 – 12 | Credits: 5

This course introduces students to Chinese culture and the basic skills in listening, speaking, reading, and writing in Simplified Mandarin. It is for students with no prior experience in the study and use of Mandarin. This course is activity-centered with emphasis on speaking and listening. Mandarin is in constant use in the classroom. Students build working vocabulary, including common idioms and phrases. In addition, the teacher introduces some areas of precision in the use of words and sentence structures. Interest is also stimulated through the study of the customs and day-to-day activities of people whose native language is Mandarin. Meets NCAA Core Course Requirements.

1228 - Mandarin II

Grade 10 – 12 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin I or come with some prior speaking and listening comprehension and an ability to write or type strings of sentences

using Chinese characters. This course emphasizes the improvement of listening, speaking, reading, and writing in Simplified Mandarin. Students pay special attention to the introduction of reading and writing of Chinese characters. Mandarin is the language used in the classroom. Students continue to improve their working vocabulary along with additional common idioms and phrases. The teachers emphasize precision in the use of more words and grammatical structures. A study of Chinese culture is an integral part of this course. Meets NCAA Core Course Requirements.

1229 - Mandarin III H

Grade 10 – 12 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin II or come with prior speaking and listening comprehension and an ability to write or type in paragraph-length using Chinese characters. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed in the previous levels. Simplified Mandarin is the language used in the classroom. Students communicate meaning in realistic situations and carry out functions that are necessary for multicultural patterns found in Chinese language and traditions. Meets NCAA Core Course Requirements.

1234 - Mandarin IV H

Grade 10 – 12 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin III H or come with prior speaking and listening comprehension and an ability to write or type in paragraph-length using Simplified Chinese characters. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed in the Mandarin III H. Students communicate meaning in realistic situations and carry out functions that are necessary for multicultural patterns found in Chinese language and traditions. Students will demonstrate, through multiple forms of assessments, their ability to communicate in the target language within the intermediate low range in the interpretive, interpersonal and presentational modes of communication. Meets NCAA Core Course Requirements.

1248 - Mandarin V H

Grade 10 – 12 | Credits: 5

This course is for students who have fulfilled the requirements of Mandarin IV H or come with prior speaking and listening comprehension and an ability to write or type in paragraph-length using Simplified Chinese characters. Instruction is oriented towards the development of the students' more complete control of the communicative functions and structures addressed in the Mandarin IV H. Students communicate meaning in realistic situations and carry out functions that are necessary for multicultural patterns found in Chinese language and traditions. Students will demonstrate, through multiple forms of assessments, their ability to communicate

in the target language within the intermediate low range in the interpretive, interpersonal and presentational modes of communication. Meets NCAA Core Course Requirements.

1236 - AP Chinese Language and Culture

Grade 11 – 12 | Credits: 5

The course is to prepare students for the AP Mandarin Language and Culture Exam. The teacher places an emphasis on developing a high level of proficiency in the spoken and written language, in formal and conversational situations, using appropriate vocabulary and grammatical structures. This course continues to develop students' interpersonal, interpretive and presentational language competencies that students use for a variety of communicative and cultural functions. Students will continue to compare and contrast the target language and culture with their own, thus enhancing students' insights into the nature of language and culture. The AP course is for highly skilled, highly motivated students with an outstanding background in Mandarin language. Students are encouraged to take the AP Mandarin Language Examination. Meets NCAA Core Course Requirements.

Alternate Programs Courses

Study Hall Options

1800 - Supervised Study Hall

Students may select a supervised study hall as a part of their schedule. Students enrolled in study hall will be required to bring work to complete or reading materials to read for the full period.

1850 - Senior AM Study Hall

Open to Seniors only

Students enrolled in this first period study hall will be required to sign in to the cafeteria by 8:00 A.M. each day. A contract will be completed on the first day of school with the parameters for maintaining this “senior privilege.”

1860 - Senior PM Study Hall

Open to Seniors only

Students enrolled in this 12th period study hall will be permitted to leave school following period 11 provided they are not involved in any after-school sports, activities or clubs. Students will not be permitted to leave and return if enrolled in this study hall. A contract will be completed on the first day of school with the parameters for maintaining this “senior privilege.”

Seniors with either Late In or Early Out will not be able to have any additional study halls in order to fulfill the 35 credit requirement.

