

FOREWORD

This booklet is presented by the entire staff of Jersey Shore Area Senior High School (JSASrHS) as a source of information regarding the courses of study. This Curriculum Guide describes the comprehensive course offerings to students for ninth grade.

A course description for each subject has been written so that the students will be aware of the material to be covered in each class. The courses listed in this guide are tentative offerings for the **2015–2016 school year**. A course will be offered **only if** enough students request it.

Before attempting to make course selections, the students and parents should carefully read the material found in this guide. Special attention should be given to the **requirements for graduation** listed on the Course Selection Requests.

We are interested in providing the finest education possible through offering a diversified curriculum. Students and parents must accept the responsibility of making careful and wise decisions. The teachers, counselors, and administrative staff of JSASrHS are ready to assist all students in selecting a schedule that will fit individual needs and interests. If you have any questions, you may contact your son or daughter's counselor at 570-398-7174.

High School Counselors:

Mr. Jason Willits - last names A-Hem
Mrs. Roxann Laird - last names Hen-Sa
Ms. Katherine Shemory – Sb-Z

Compliance Statement

It is the policy of the Jersey Shore Area School District not to discriminate on the basis of race, sex, religion, color, national origin, age, handicap or limited English proficiency in its educational programs, services, facilities, activities or employment policies as required by Title IX of the 1972 Educational Amendments, Title VI and VII of the Civil Rights Act of 1964, as amended, Section 504 Regulations of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Section 204 Regulations of the 1984 Carl D. Perkins Act or any applicable federal statute.

For information regarding programs, services, activities, and facilities that are accessible to and usable by handicapped persons or for inquiries regarding civil rights compliance, contact: Jersey Shore Area School District, 175 A&P Drive, Jersey Shore, PA 17740, 570-398-1561; or the Director of the Office of Civil Rights, Department of Health, Education and Welfare, Washington,

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Updated: 3/6/15

Ninth Grade Required Classes

English

Students are required to earn a minimum of four (4) English credits for graduation, pass the English 9 course and score proficient or advanced on the Keystone Literature Exam in order to graduate. Students who do not pass the Keystone Exam will be required to take the Keystone English course in 10th Grade. Students must take at least .50 credits in English their senior year.

0120 English 9 (1.00 credit)

Research and documentation methods are crucial components of the course in ninth grade English. Students will master benchmark research skills. Composition assignments prepare students for the PSSA test and for future education and employment. Word studies are conducted as well as taking words in context from literature. Students read Shakespeare's *Romeo and Juliet* and Homer's *The Odyssey* as well as a number of novels, short stories, and poems. . This course will prepare students to take the Keystone Literature Exam, which is required of all students in the 2017 graduation class and beyond.

0130 English Honors 1 (Gr 9) (1.00 credit)

The course of study includes a variety of literature similar to that of English 9 Academic. A study of the history of the background of the author and period is included to provide insight into the piece of literature. Grammar is taught in correlation with writing and vocabulary. Sentence structure and more advanced grammar concepts are fine-tuned from basic knowledge. Particular writing methods are taught, including formal research, expository, comparison and contrast, and persuasive. Developmental vocabulary is continued through vocabulary texts, context of literature, and word lists that accompany pieces of literature. Independent reading and Study Island are used to enhance standardized test scores. Research skills are taught and applied to a research unit. This course will prepare students to take the Keystone Literature Exam, which is required of all students in the 2017 graduation class and beyond.

Social Studies

(Choose One)

The high school social studies program is designed to impart critical and analytical thinking skills to all

students. As students explore history and are introduced to disciplines within the social sciences, they will also refine their written and oral communication skills. All students are expected to read assignments critically and participate actively in class discussions and activities.

1120 United States History 1 (Gr 9) (1.00 credit)

This course is designed to give all students a broad background in the social, political, and economic development of the United States from the French and Indian War to the end of the Reconstruction era. Topics include, but are not limited to, the American Revolution, formation of a republican form of government, the birth of political parties, westward expansion, and causes of the Civil War. United States geography will also be an integral part of the course.

1130 19th Century History Honors (Gr 9) (1.00 credit)

This college preparatory course will help students develop critical thinking and writing skills that they will use throughout high school and college. It will help students learn to think historically as they compare economic, political, intellectual, and social developments in Europe and the United States from the Seven Years' War to the end of the nineteenth century. Topics include, but are not limited to, the Enlightenment, American Revolution, French Revolution and Napoleon, Early American Republic, Jacksonian Democracy, the American Civil War, and European Imperialism. Students will be expected to read and write about challenging primary and secondary source materials. Since this course is also designed to prepare students for future Advanced Placement (AP) coursework in European and United States history, special emphasis will be placed on the critical thinking skills needed to complete the multiple choice and free response portions of the AP exam as well as methods to analyze primary documents. **Note: All students who score at the advanced level on the reading portion of 8th Grade PSSA Exam will automatically be enrolled in this course as it will help to expand and refine their abilities to interpret, analyze and evaluate non-fiction.**

Mathematics

Upon completion of 8th grade, all students will need to choose a math pathway for the high school. A score of Proficient or Advanced on the Keystone Algebra 1 exam in 8th grade is a prerequisite for the Honors Pathway.

Career Pathway
(Workforce, technical or 2 year associates degree pathway)

With teacher recommendation

Grade 9

2120 Career Algebra 1 (1.00 credit)

The study of Algebra lays the foundation for mathematics, sciences, and technical courses a student will be taking in the future. Students learn to express relationships verbally, pictorially, graphically, and symbolically. Equations are solved graphically prior to solving them symbolically. Emphasis is on connections to the real world and to various mathematical strands. Geometric models are used to connect the visual and the symbolic. Use of scientific and graphing calculators is encouraged throughout the course. The emphasis in this course is on the concrete applications and concept.

Academic Pathway
(2 year associates or 4 year college degree pathway)

Grade 9

2122 Academic Algebra 1 (1.00 credit)

The study of Algebra lays the foundation for mathematics, sciences, and technical courses a student will be taking in the future. Students learn to express relationships verbally, pictorially, graphically, and symbolically. Equations are solved graphically prior to solving them symbolically. Emphasis is on connections to the real world and to various mathematical strands. Geometric models are used to connect the visual and the symbolic. Use of scientific and graphing calculators is encouraged throughout the course. This course covers the same materials as #2120 but with more emphasis on the abstract applications and concepts and prepares the student to take the Keystone Exam at the end of the course. All students must take the Keystone Exam for Algebra 1.

Honors Pathway
(4 year college degree pathway)

Grade 9

2133 Geometry Honors (1.00 credit)
(Prerequisite: Proficient or higher on the Keystone Algebra 1 exam in 8th grade)

This is the accelerated Geometry for the 9th grade. The same material as course #2132 is covered with a few additional topic. This course prepares students to take the Keystone Exam for Geometry.

Science

Students are required to earn a minimum of four (4) Science credits for graduation and score proficient or advanced on the Keystone Biology Exam in order to graduate. Students who do not pass the Keystone Exam will be required to take the Keystone Biology course in 11th Grade.

Upon completion of 8th grade, students must choose a science pathway for the high school. A score of Advanced on the Keystone Algebra exam in 8th grade and a recommendation is a prerequisite for the Honors Pathway.

Career Pathway
(Workforce, technical or 2 year associates degree pathway)

OR

Academic Pathway
(2 year associates or 4 year college degree pathway)

Grade 9

3122 Earth and Space Science (0.50 credit)

This course will provide students with an understanding and knowledge of the Earth and the Earth's place in the Universe. The following topics will be covered: Astronomy- the Earth in the Universe, Meteorology-the atmosphere of the Earth, and Geology-the solid part of the Earth. The students will develop proficiency in basic laboratory process skills such as measurement, data collection, organization, analysis, and forming conclusions.

3125 Physical Science (0.50 credits)

Physical Science is a course designed as a survey course in the basic concepts of physics. Students will be introduced to qualitative and quantitative analysis in motion, momentum and impulse, direct current electricity, circuits and simple machines. Emphasis is placed on data collection, laboratory work and problem solving. The student will develop proficiency in data collection and basic laboratory skills such as measurement, data organization and analysis.

Honors Pathway (4 year college degree pathway)

Grade 9

3219 Honors Biology / REQUIRED Course (1.00 credits)

(Prerequisite: Must have scored advanced on the Keystone Algebra Exam and the PSSA Reading Exam and must have a teacher recommendation.)

Biology is the Keystone science trigger course for the high school. For those students who will graduate in 2017 or after a score of proficient or above must be earned on the Keystone Biology Exam or the student must successfully complete the project based assessment in order to meet graduation requirements. As such the biology course has been designed to enhance student understanding of the structure and function of all living things as well as the individual's place in this community of life *and* to provide each student the tools required to be successful on the Keystone exam. The biology course places special emphasis not only on those areas tested by the exam but other important concepts all should be familiar with as members of a global learning community. Topics include the cell, cell division, the cell's role in the establishment and maintenance of homeostasis, bioenergetics, ecology, genetics, evolution, classification, and zoology. Biology is a laboratory science and as such students will complete not only typical homework assignments, projects, quizzes, and tests but will also complete many lab activities and generate appropriate lab reports.

Physical Education/Health

(Choose Both)

8000/8010 Physical Education (Gr 9-12) (0.50 credit)

The physical education program will provide a wide variety of activities to meet the mental, physical, social, and emotional needs, as well as the interests and abilities, of all students. The activities are designed to develop interpersonal skills, positive attitudes, a desire to participate, physical fitness, and an appreciation of lifetime and individual sports. The activities are offered to each student in a co-educational, modified elective program. Students will have the opportunity to develop proficiency in movement forms. This proficiency involves the ability to demonstrate a degree of consistency and skillfulness in the execution of basic as well as advanced skills in offered activities.

Included in the program is a wide variety of activities, such as, basic swimming, disc golf, soccer, pickle ball, volleyball, softball, basketball, badminton, recreational

games, square dancing, aerobics, floor hockey, aquatic fitness, fitness walking, and kayaking, canoeing, snorkeling and a variety of aquatic games. The students will have use of the "fitness center" which includes: cardio equipment, hammer strength training, and a variety of circuit training will be available to all students.

Furthermore all ninth grade students and "new" students to the district will be certified in the technique, safety, care, handling of equipment and procedures of the fitness center.

Business, Finance and Information Technologies

Business, Finance and Information Technologies is a path to a successful career. The demand for persons with business skills is constantly growing, especially in the accounting/finance, marketing, administrative assistant, and technology-related fields. Business and Computer Technologies allow students to do the following: (1) develop life skills needed by all consumers; (2) prepare for both college, employment, and personal finances; (3) acquire lifelong skills and habits to apply to a career; (4) broaden life-long work and study options; (5) pretest career interests before going to college; and (6) provide an opportunity to apply academic content. The courses offered by the Business and Computer Technologies Department are designed to provide the skills and competencies that will be used in a variety of careers as well as student's personal lives.

4200 Personal Finance/Business Applications (Gr 9 required) (0.50 credits)

Personal Finance and Business Applications introduces students to the business concepts and skills required in today's marketplace. Students need to have a basic understanding of business principles, computer applications, and personal finance to become productive members of the workforce. The intent of the course is to inform students of their various financial responsibilities and to provide them with opportunities for self-awareness, expression, and satisfaction in a highly technical and competitive society.

Pathway Gateway Courses

Students must select one full credit course from this list as a ninth grader.

0040 Pathway Rotation (Gr. 9) (1.0 credits)

This course will give students a brief overview of the Learning Pathways curriculum offered at Jersey Shore High School. The Pathway Rotation course is made up of four (4) separate mini-courses each focusing on a different learning pathway. Students rotate between classes at the end of each marking period. Individual rotation classes introduce career topics pertaining to the different learning pathways. The Pathway Rotation class includes:

- Arts and Communications
- Business, Finance, and Information Technology
- Human Services and Health Science
- Industrial Technologies.

0041/6021 Multimedia Design (Gr. 9-10) (1.0 credits)

Learning Pathway: Arts and Communication

This course is a 9th grade gateway course to expose students to the Design (Web and Print) courses as well as the Digital Imaging & Photography courses offered through Technology Education and CTE.

Students will study various aspects of the design process such as layout design, resolution/printing, and color theory. Concepts that will be explored include planning procedures, creating thumbnail sketches, creating digital wireframes, final design creation, and publication. Students will be expected to use math skills to calculate image size, resolution, document layout/positioning, etc. Each project is designed to develop problem solving skills, encourage collaboration as well as project-oriented research.

Students will also be introduced to basic camera aspects such as sensors, lens systems, mode controls, various camera formats, etc. Additionally, students will be introduced to manual exposure controls such as Aperture, Shutter Speed, and ISO, and their effects on exposure quality. Photographic composition concepts such as The Rule of Thirds, Perspective, Low/High Angle shots, and Depth of Field will be explored and experimented with real world subjects/scenes. This course will also serve to introduce students to the fundamentals of post-production work utilizing Adobe Photoshop. Students will experience much of the post-production workflow including transferring files, color correcting, tonal correction,

resizing, and publishing to the web/or print. This course is to serve as an introduction to the higher level course offerings in Communications and Digital Photography through the CTE department here at the high school.

0043/9776 Construction, Design & Building Trades (Gr 9) (1.0 credits)

Learning Pathway: Building and Construction Engineering

This course is the gateway class for the Engineering and Industrial Technologies: Building Technologies Pathways. Students will learn basic skills in carpentry, electrical, plumbing, basic tools, measurements, blue prints, architecture, and computer aided drawing (CAD). Construction, Design & Building Trades will introduce students to the Building Maintenance, Construction Trades, and Computer Aided Drawing (CAD) Career and Technical Education programs.

0042/4210 Introduction to Business (Gr 9-12) (1.00 credit)

Learning Pathway: Business, Finance, and Information Technology

This course is highly recommended to all students! The course is designed as an introduction to some of the business courses offered at the high school. Students can use this course to help them find a possible career or interest area. This is a good course for those who will enter any field of business, and for everyone else who will ever have to make decisions involving money. Considerable time will also be spent in the microcomputer lab using software to supplement the regular classroom instruction. "Intro" can make the difference in your future.

0044/9778 Industrial Technologies**(Gr 9)
(1.0 credits)*****Learning Pathway: Industrial Technologies***

This course is the gateway class for the Engineering and Industrial Technologies: Industrial Technologies Pathways. Students will learn basic skills in electrical, programming, computer aided drawing (CAD), prints, schematics, measurements, basic tools, units, welding, and engines. Industrial Technologies will introduce students to the Automotive, Electrical, and Manufacturing Career and Technical Education programs.

0045/9026 Introduction to Human Services**(Gr 9)
(1.0 credits)*****Learning Pathway: Human Services***

This course will enable students to investigate careers in the human services career fields including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. In addition, this course focuses on personal development, interpersonal relationships, effective individual and family functioning, and career preparation – all within a changing society.

0046/8114 Health Occupations**(Gr. 9)
(.50 Cr)*****Learning Pathway: Health, Science, and Agriculture***

The Health Occupations course will enable students to engage in a more thorough understanding of the various occupations available in the Health field. Students will be provided information on: job descriptions, job responsibilities, including the negative and positive aspects of the jobs, training and educational requirements, salary/benefits, working environments, advancement opportunities, job security and retirement incentives through instruction, research and personal experiences with guest speakers. The course is an excellent way for students to become better prepared for making career decisions in Health related fields.

NINTH GRADE ELECTIVES**Art****7000 Introduction to Art****(Gr 9)
(.50 credits)**

Intro to Art is designed to give students a broad art experience in Drawing, Painting, Sculpture, Printmaking and Digital Art. Assignments are designed to challenge, exercise creative muscle, and broaden artistic experience. Students will learn and utilize all of the principles and elements of art. This class will give students an excellent foundation for continuing their education in any of the other art classes available in the future. All projects must be completed in order to receive credit for this course.

7135 Sculpture**(Gr 9-12)
(0.50 credits)**

Students will create a wide range of sculptures using various materials, tools and techniques. Clay sculpting will be a large part of the class and will supplement any pottery classes that students may take. Materials will range from clay, wood, stone, plaster, and drywall. All projects must be completed in order to receive credit for this course.

Business**4210 Introduction to Business****(Gr 9-12)
(1.00 credit)**

This course is highly recommended to all students! The course is designed as an introduction to some of the business courses offered at the high school. Students can use this course to help them find a possible career or interest area. This is a good course for those who will enter any field of business, and for everyone else who will ever have to make decisions involving money. Considerable time will also be spent in the microcomputer lab using software to supplement the regular classroom instruction. "Intro" can make the difference in your future.

4342 Accounting 1

**(Gr 9-12)
(1.0 credit)**

This course is designed to equip the student with the professional skills that will enable him or her to work in the fields of accounting or bookkeeping. Many job opportunities exist in these fields. The student receives training in each step of the accounting cycle from journalizing through the end-of-month work, to the preparing of financial statements used by management. Accounting is the backbone of any business structure and is highly recommended for any student considering a career in the business field. Basic computerized accounting applications will now be integrated into Accounting 1. *(After this course it is recommended that you take 4341 (ACC113) followed by 4346 (ACC123) if you are interested in a business or accounting career.)*

English

0500 Introduction to Journalism (Gr 9-12) (.50 credit)

Students will learn skills in reporting, interviewing, writing the article, editing, making layouts, and using desktop publishing software on the computer. Students will also have the opportunity to write articles to be published in the school newspaper, *The Paw Print*. Students also learn the basics of broadcast journalism, including the filming and editing of video to create news packages for the school TV broadcast, *Bulldog News*. Students wishing to take Advanced Journalism must successfully complete this course. This is an elective credit not an English credit.

Family and Consumer Science

6550 Culinary Arts 1 “Epicurean Palate” (Gr 9-12) (.50 credits)

Culinary Art 1 introduces each student to various aspects of food service. The student will master skills in food preparation and presentation, sanitation, time and money management, nutrition and Holidays celebrated with food. This course stresses the development of work ethics and communication skills in the work place, which are necessary to acquire and retain employment.

6551 Culinary Arts 2 “Epicurean Palate”

**(Gr 9-12)
(.50 credits)
(Prerequisite: Culinary Arts 1)**

This elective course allows students with a minimal background in cooking to begin to develop their culinary skills. Units of study will focus on the four main cooking methods used in the kitchen today; sautéing, pan-frying, braising, and steaming. Each unit will include a number of recipes to prepare and taste. Sanitation, conversion skills, and equipment identification are also included to begin a strong foundation in your culinary arts education. **Students will be required to participate in a minimum of one catering function beyond the school day.**

9026 Introduction to Human Services

**(Gr 9)
(1.0 credits)**

This course will enable students to investigate careers in the human services career fields including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. In addition, this course focuses on personal development, interpersonal relationships, effective individual and family functioning, and career preparation – all within a changing society.

Modern Language

Modern Language can be the key to a successful future in both school and business. More than 70% of U.S. firms report that knowledge of a second language is an important consideration for successful employment. They seek employees with functional language skills as well as sensitivity to social and cultural differences. Speakers of a foreign language are greatly valued by international business firms as well as social services, law enforcement, manufacturers, health service providers, and local employers, i.e. the gas industry. Most universities recommend foreign language study as both an admission and graduation requirement. Students who study a foreign language demonstrate a better understanding of other cultures in addition to their own. Combining foreign language skills with almost any other career path makes the student more desirable in the field of future employment.

Spanish

5140 Spanish 1

(Gr 9-12)
(1.00 credit)

This course is an introduction to the language and culture of society with different speech and lifestyles. The initial stages of language learning include mastery of a new sound system through oral repetition and practice of pronunciation, vocabulary, phrases, and, eventually, conversations. Reading and writing in the language will be studied. The student will be introduced to the new culture throughout the year through use of books and other visuals, foods, native speakers, magazines, etc. as available. The culture--that is, the behavior, beliefs, and values--of the people studied is an integral part of this course. Evaluation is based on oral class participation, completion of homework assignments, projects, oral and written quizzes, and unit tests. Students will be expected to complete assignments in a self-disciplined, self-motivated manner.

5240 Spanish 2

(Gr 9-12)
(1.00 credit)

(Prerequisite: Successful completion of Spanish 1 with a minimum 86% average)

Level 2 stresses the continual use of the spoken language in the classroom. Students will continue grammar studies related to development of aural, oral, reading, and writing skills. Culture will be presented as an integral part of the course. Emphasis will be placed on the benefits of language study, both in the social and the business world. Evaluation will be based on oral participation, completion of homework assignments, projects, quizzes, and chapter test scores. Self-motivation and self-discipline are important for a successful language study.

5120 German 1 (Gr 9-12)

(1.00 credit)

A beginners course in German. It is assumed that no student has had a previous German course and in turn, no prior knowledge of German is required. Students will learn how to communicate effectively in German at a beginners level. Students will also gain an in-depth understanding of German culture. The *Komm Mit!* Level 1 textbook is used for German 1, which includes 12 chapters. The abilities of students who complete German 1 will measure at the *Novice High* level according to the ACTFL Proficiency Guidelines.

Music

5600 Concert Band

(Gr 9-12)
(.50 credits)

The Concert Band is a high school performing ensemble which rehearses every other day. Participants include students who have been involved in the music program since elementary and middle school. The Band performs for evening concerts and other special events throughout the year. Repertoire includes music from various periods of music history as well as contemporary wind ensemble literature and marches. Band members, *in good standing*, will have the opportunity to audition for LCBDA/PMEA county/district/region/state festivals. Opportunity for solo and small ensemble concerts may also present themselves throughout the year.

Previous experience playing an instrument in the district's music program is highly encouraged, although not necessarily required. **Students without previous playing experience must meet with the director for permission to schedule this course.**

Extra-Curricular – Marching Band (Gr 8-12)

The Bulldog Marching Band is an extra-curricular activity that meets entirely outside of the school day. Students do not need to participate in Concert Band in order to be a member. The marching band provides entertainment to the community through parades and football games. This ensemble also participates in local marching band competitions as well as the Lycoming County Band Director's Marching Exhibition. The Bulldog Marching Band begins each season over the summer and continues through the end of Marking Period 1. Repertoire includes serious works for marching band as well as contemporary and popular music. *Prior experience with color guard is NOT required as students will be taught by a color guard instructor.*

5601 Concert Choir

(Gr 9-12)
(.50 credits)

The Concert Choir is a high school performing ensemble which rehearses every other day. The Concert Choir performs at school concerts and special events throughout the year. Repertoire includes music from various periods of history, as well as world and American music, folk and contemporary. The Concert Choir members, *in good standing*, may audition for PMEA district/region/state festivals and other select ensembles. Other performance opportunities may become available to perform in solo and ensemble concerts throughout the year.

**Additional Ensembles/Activities (Gr 9-12)
Co-Curricular**

Students involved in the music program will also have the opportunity to participate in smaller, seasonal activities at the Jersey Shore Area Senior High School. *Possible* groups include: jazz band, wind ensemble, percussion ensemble, quartets, quintets, pep band, and various select vocal ensembles. Students are chosen by auditions for certain groups.

**5705 Music History (Gr 9-12)
(.50 credits)**

This course is designed to help students understand how music has progressed throughout history and the stylistic changes music endured during different eras. In this class, students will listen to various styles of sacred and secular music from various countries as well as music by well-known composers. Students should be prepared to take notes and keep a detailed notebook. In addition, students will be required, on occasion, to write short papers/essays and give oral presentations. This semester course is open to all students who have an interest in the history of music. *Previous knowledge of how to read music is not required, but would be helpful.*

**5710 History of Rock and Roll (Gr 9-12)
(.50credits)**

This semester course was created to fulfill the art/music/fcs component of the graduation requirements. It is designed to help students understand what constitutes the idea of “rock and roll” and its progression from the early 1950’s through current trends. In this class, students will listen to examples of music from various artists/groups from the various time periods. In particular, considerable time is spent on music of the 1950’s, 1960’s, 1970’s, and 1980’s. If time permits, discussion also includes music of the 1990’s to the present. Students should be prepared to take notes and keep a notebook for the class. In addition to quizzes/tests, students may be required to prepare an oral group presentation and an individual project.

Physical Education/Health

**8115 Health Elective- Safety concepts & first aid
(Gr 9-12)
(.50credit)**

This course will satisfy the following National Health standards, 10.3.9, 10.3.10, 10.3.11, 10.3.12. The course will enable the students to complete the following objectives:

- Analyze the role of individual responsibility for safe practices and injury prevention in the home, school and community
- Describe and apply strategies for emergency and long-term management of injuries
- Analyze and apply strategies to avoid or manage conflict and violence during adolescence
- Assess the personal and legal consequences of unsafe practices in the home, school and community
- Analyze and apply strategies for management of injuries
- Analyze and apply First Aid and Safety techniques, i.e. CPR, Choking Conscious, Choking Unconscious, and Rescue Breathing
- Obtain a certification in First Aid/CPR/AED for schools and Community by passing the skills test and the written test with a minimum 80%.

Science

**3400 Environmental Science (Gr 9-12)
(0.50 credits)**

Environmental Science emphasizes global environmental concepts as they relate to local issues. Students will perform case study analysis, problem-solving, project creation and development, computer and internet use, oral reports/discussions, laboratory measurement, data collection and analysis, along with other activities utilized to promote student-centered learning.

**3410 Astronomy (Gr 9 – 12)
(.50 credits)**

A survey of modern astronomy introducing topics from our solar system and other planetary systems, galaxies, the evolution of stars, and the methods and technology used to explore planetary and stellar processes. Included with this course is a lab that introduces the student to astronomical observations with the use of a series of telescopes and lab exercises.

Technology Education

0040 Pathway Rotation (Gr. 9) **(1.0 credits)**

This course will give students a brief overview of the Learning Pathways curriculum offered at Jersey Shore High School. The Pathway Rotation course is made up of four (4) separate mini-courses each focusing on a different learning pathway. Students rotate between classes at the end of each marking period. Individual rotation classes introduce career topics pertaining to the different learning pathways. The Pathway Rotation class includes:

- Arts and Communications
- Business, Finance, and Information Technology
- Human Services and Health Science
- Industrial Technologies.

6021 Multimedia Design (Gr. 9) **(1.0 credits)**

This course is a 9th grade gateway course to expose students to the Design (Web and Print) courses as well as the Digital Imaging & Photography courses offered through Technology Education and CTE.

Students will study various aspects of the design process such as layout design, resolution/printing, and color theory. Concepts that will be explored include planning procedures, creating thumbnail sketches, creating digital wireframes, final design creation, and publication. Students will be expected to use math skills to calculate image size, resolution, document layout/positioning, etc. Each project is designed to develop problem solving skills, encourage collaboration as well as project-oriented research.

Students will also be introduced to basic camera aspects such as sensors, lens systems, mode controls, various camera formats, etc. Additionally, students will be introduced to manual exposure controls such as Aperture, Shutter Speed, and ISO, and their effects on exposure quality. Photographic composition concepts such as The Rule of Thirds, Perspective, Low/High Angle shots, and Depth of Field will be explored and experimented with real world subjects/scenes. This course will also serve to introduce students to the fundamentals of post-production work utilizing Adobe Photoshop. Students will experience much of the post-production workflow including transferring files, color correcting, tonal correction, resizing, and publishing to the web/or print. This course is to serve as an introduction to the higher level course offerings in Communications and Digital Photography through the CTE department here at the high school.

9776 Construction, Design & Building Trades (Gr 9) **(1.0 credits)**

This course is the gateway class for the Engineering and Industrial Technologies: Building Technologies Pathways. Students will learn basic skills in carpentry, electrical, plumbing, basic tools, measurements, blue prints, architecture, and computer aided drawing (CAD). Construction, Design & Building Trades will introduce students to the Building Maintenance, Construction Trades, and Computer Aided Drawing (CAD) Career and Technical Education programs.

9778 Industrial Technologies (Gr 9) **(1.0 credits)**

This course is the gateway class for the Engineering and Industrial Technologies: Industrial Technologies Pathways. Students will learn basic skills in electrical, programming, computer aided drawing (CAD), prints, schematics, measurements, basic tools, units, welding, and engines. Industrial Technologies will introduce students to the Automotive, Electrical, and Manufacturing Career and Technical Education programs.

9779 Introduction to Woodworking (Gr 9) **(.50 credits)**

Introduction to Woodworking is designed as an introductory woodworking course. Students will learn basic woodworking skills while completing a teacher lead project. The students will experience the use of all available hand tools, machinery and operations. This course will serve as a foundation course for students who are interested in the Construction Trades pathway and also Engineering Technologies pathway.

9782 Intro to Building Maintenance (Gr 9) **(.50 credits)**

Introduction to Building Maintenance is an introductory course for student interested in the Building Maintenance and Construction Trades pathway. This course will provide an overview of the Construction Trades pathway by introducing the student to residential carpentry, electrical and plumbing systems, as well as landscaping and various maintenance related tasks.