

**SOMERSET BERKLEY REGIONAL HIGH SCHOOL
SOMERSET, MASSACHUSETTS**

FRESHMEN COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS AND READING

The English Language Arts and Reading Department at Somerset Berkley High School offers a comprehensive and rigorous course of study which includes specific core requirements at grades 9 and 10, expanded core requirements at grades 11 and 12, electives, and reading and literacy supports. Our goal is to educate our students to be analytical readers, coherent writers, critical thinkers, complex problem solvers, and responsible citizens.

English I: Literary Genre

Grade 9

Level 1: Pre-AP

190100

This Pre-Advanced Placement course is the first in a sequence of two courses which will serve as a strong foundation for AP English Language and Composition and/or AP English Literature and Language. The course is a deep study of literary genre. By the end of the year, students will master each of the following skills: rhetorical analysis, Integrating literary theory and criticism into discussion and writing, close reading, research, and the writing process. Students electing to take Pre-AP are expected to be highly independent, self-motivated and organized learners. Students should have earned a score of **ADVANCED** on the ELA MCAS, be recommended by their grade 8 teacher, and have scored exemplary on a writing sample administered by the high school English Department.

Level 1

110100

This accelerated course will serve as the foundation for all college preparatory English study at Somerset-Berkley Regional High School. This introductory course will focus on the reading of traditional and contemporary literature. Particular emphasis will be placed upon the development of skills needed by students to become independent readers and writers. Students will begin their mastery of the following skills: analysis of literature, critical thinking and reading, understanding literature and the writing process. Students electing to take Honors are expected to be highly independent, self-motivated and organized learners. Time will be devoted to MCAS preparation. **Students should have earned a score of ADVANCED on the ELA MCAS.**

Level 2

120100

This course will serve as the foundation for all college preparatory English study at Somerset-Berkley Regional High School. This introductory course will focus on the reading of traditional and contemporary literature. Particular emphasis will be placed upon the development of skills needed by students to become independent readers and writers. Students will begin their mastery of the following skills: analysis of literature, critical thinking and reading, understanding literature and the writing process. Time will be devoted to MCAS preparation.

PART-TIME COURSES

Journalism

Grades 9-12

3 periods per cycle

600200

This mini course is designed to introduce students to journalism. Students will use models of good writing to determine techniques that good writers use and will apply these techniques while developing writing portfolios. Students will study the history of journalism, conduct independent research and interviews, investigate student press laws and ethics and examine the skills needed to write for a newspaper. During the third term, students will create their own newspaper. During the fourth term, students will explore photojournalism.

Speech and Debate

Grade 9-12

3 periods per cycle

620600

Students will learn the fundamentals of speech communication, research skills and the art of debate. They will listen to, deliver, discuss and respond to presentations of increasing complexity. These include introductory, informative, persuasive, interview, impromptu, tribute and process speeches.

SOCIAL STUDIES

The goal of the Social Studies Department is to develop responsible, engaged citizens who are prepared to succeed in a 21st century global and technological world. The discipline of Social Studies provides content that students will use to understand political, social, and economic issues. It also allows students to hone their skills and apply knowledge to make effective personal and public decisions.

Courses in the Social Studies department stress competence in the following skills:

- Analytical and critical reading of primary and secondary sources
- Research and writing
- Oral presentation
- Historical interpretation and analysis
- Crafting historical argumentation

U.S. History & Government before 1877 with document readings

Grade 9

Level 9 (AP)

190101

In this course, students will engage in a comprehensive and in-depth analysis of political, social, economic, diplomatic, intellectual and cultural aspects of U.S. history from colonial times to the end of the Reconstruction period. Based on primary and secondary sources, this course utilizes extensive document readings that enhance students' comprehensive reading of the text. Students will develop skills in historical interpretation, oral argument, and writing and research in preparation for the United States History Advanced Placement Exam, which will be taken in the spring of grade 10.

U.S. History & Government 1763-1877 with document readings

Grade 9

Level 1

110101

Students will examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students will study the basic framework of American democracy and concepts of American government, as well as America's westward expansion, the establishment of political parties, economic and social change, sectional conflict, the Civil War and Reconstruction. Students will be required to interpret and analyze substantial primary source and supplemental readings, sometimes independently.

Level 2

120101

Students will examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students will study the basic framework of American democracy and concepts of American government, as well as America's westward expansion, the establishment of political parties, economic and social change, sectional conflict, the Civil War and Reconstruction. Students will be required to interpret and analyze primary and secondary source readings.

Level 3

130101

Students will examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students will study the basic framework of American democracy and concepts of American government, as well as America's westward expansion, the establishment of political parties, economic and social change, sectional conflict, the Civil War and Reconstruction. Students will have extensive opportunity to practice close reading skills thereby preparing them for independent historical analysis. Students will be introduced to the interpretation and analysis of required primary source documents. This course does not satisfy NCAA eligibility requirements.

MATHEMATICS

Mathematics Dept. Calculator Policy:

To follow the Massachusetts Common Core Curriculum Frameworks and to meet our school's academic expectations, it is necessary to utilize technology as an essential tool in the teaching of mathematics. In keeping with the school's Core Values and Beliefs Statement, that each student come to school ready to learn, and to maximize learning success, appropriate calculators will be recommended for use at home and in school.

It is recommended that all students provide their own calculators and develop proficiency with them. Scientific calculators are sufficient for Geometry courses. Graphing calculators are encouraged for all courses starting with Algebra II, while strongly recommended for Pre-Calculus and Calculus. Graphing calculators are required for AP Statistics. The TI-84+CE graphing calculator is recommended. Teachers will inform students of the appropriate calculator at the beginning of the school year.

In addition, students taking the math portion of the MCAS, PARCC, the PSAT's and the SAT's will be required to have their own calculators and be proficient with them. A minimum scientific calculator is required. A graphing calculator is required for taking the Calculus AP exam and the AP Statistics exam.

Mathematics Dept. Summer Packet Policy:

In order to have students maintain content knowledge, summer packets are given at the end of the previous school year. The summer packets are due the first Monday after school begins. There are no exceptions. The packets are given to all students all math classes except Math Applications. If a summer packet is lost, it is available for download on the math department website shsmath.webnode.com or at the Somerset Berkley Regional High School website somersetberkley.org.

COURSE OFFERINGS:

Algebra I

Grade 9 Level 1

110103

This course is an in-depth study of Algebra I which proceeds at a quick pace. The concepts of algebra are introduced with an examination of the structure and the techniques of algebra, linear equations, factoring, quadratic equations, inequalities, graphing, probability, and statistics. Real world applications are integrated throughout the course. **Students should have a minimum average of C+ in level 1 Math in grade 8 and/or qualify according to skill level on a grade 8 placement test.**

Grade 9 Level 2

120103

The concepts of algebra are introduced with an examination of the structure and the techniques of algebra. Topics studied include: number lines, variables, functions, linear equations, factoring, quadratic equations, inequalities, graphing, probability, and statistics. Real world applications are integrated throughout the course. **Students should show appropriate skill level to succeed in this course by taking a grade 8 placement test.**

Model Mathematics I

Grade 9 Level 3

130103

The fundamental purpose of the course is to formalize and extend the mathematics that students learned in the middle grades. This course is comprised of standards selected from the high school **conceptual categories of the Common Core Frameworks**, which were written to encompass the scope of content and skills to be addressed throughout grades 9–12 rather than through any single course. This is a course in which students learn mathematics in the context of real world applications and a wide variety of problems. The course is intended for students who have difficulty with the abstract nature of the traditional approach. Topics in Algebra, Geometry, Logical Reasoning, Measurement, Probability, Data Analysis, Statistics, Patterns, Relations, Number Sense and Operations are interwoven throughout. These topics are spiraled throughout the course to enhance learning. This course is part of a three-year sequence. This course does not satisfy NCAA eligibility requirements. **Students should have successfully completed Pre-Algebra.**

Pre-AP Geometry

Grades 9 Level 9

190103

Students taking this course will move at a quicker pace than level one. This course is a more in-depth study of Geometry including the definitions, postulates, and theorems of plane geometry using a rigorous theoretical approach with emphasis on logical arguments and proofs. The course covers plane geometry, deductive reasoning, problem solving strategies, and logic. Solids and three-dimensional space is explored and developed including surface area and volume. There is a special emphasis on coordinate and transformational geometry. Right triangle trigonometry is introduced and explored. **Students should have a minimum average of A- in Algebra 1, level 1, in grade 8 or 9, and qualify according to skill level on an Algebra final exam.**

SCIENCE

SCIENCE PROGRAM

The science program offers strong traditional core science courses such as Physics, Biology, and Chemistry. Offered electives include Environmental Science, Forensics/Biotechnology, Human Anatomy and Physiology, Science Review, AP Chemistry, AP Biology, and AP Physics. Colleges and universities traditionally consider Physics, Biology, and Chemistry as single-discipline lab courses serving as the foundation of any science program. All full-time science courses are lab courses and meet 7 periods per cycle, except AP Classes which meet for 10 periods per cycle.

In addition to providing their own colored pencils, notebooks, book covers, binders, binder paper, rulers, and writing instruments as required by individual teacher expectation sheets, **Students are required to have their own scientific calculator (TI-30XIIS or equivalent).**

Science Course Summer Assignment and Level Expectations:

Summer Assignment Expectations:

All Physical Science, Biology, Chemistry and other core courses have mandatory summer assignments associated

with them. These are e-learning assignments that require the students to work independently during the summer months. All assignments are due by August 31th and will be part of the term 1 grade for the student. The value of these assessments will be that of a quiz grade. Failure to follow directions will result in the student receiving a "0." In addition, the students will be assessed on the knowledge gained during the summer assignment process in subsequent assessments. Please see the Science Department website for further instructions.

Level Expectations:

Tech Prep/Level 3: Students electing these courses will cover the SBRHS core curriculum for the course they are taking. Courses will be taught in a manner to prepare them for science classes at a two year college or technical program. Assignments and assessments will be similar to level 2, however, the pace of the course will be slower and with more adaptations and modifications made to meet the needs of the student.

College Prep/Level 2: Students electing these courses will cover the SBRHS core curriculum for the course they are taking. Courses will be taught in a manner to prepare them for science classes at a traditional four year college or university. Assignments and assessments will be similar to level 1, however, the pace of the course will be moderate with more interaction between student and teacher in regards to analytical reading and writing, independent projects and learning to meet the needs of the student.

Honors/Level 1: Students electing these courses will cover the SBRHS core curriculum for the course they are taking. Courses will be taught in a manner to prepare students for Honors programs at a traditional four year colleges or university. Pacing for the course will be accelerated, and students will be held to high expectations. Students in this level will be prepared for advanced and AP courses. Assignments and assessments will be given that will require independent research and work habits. Critical thinking, analytical reading and writing skills are criterion for success at this level.

COURSE OFFERINGS:

Introductory Physics

Grade 9

Level 1

110104

This accelerated course is a conceptual study of motion, forces, energy, momentum, heat and heat transfer, waves, electromagnetism, and electromagnetic radiation with a focus on the basic principles of physics. This course is devoted to imparting a sound foundation in the areas of measurement, laboratory techniques and the analysis of experimental data. **Students should have a minimum average of B in level 1 Math and Science in grades 7 & 8. Physical Science level selection should match Freshman Math level selection. Changes may be made to student's course selection based on teacher recommendations and MCAS Scores. Students are required to have their own scientific calculator (TI-30XIIS or equivalent).**

Level 2

120104

This course is a conceptual model that involves the study of motion, forces, energy, momentum, heat and heat transfer, waves, electromagnetism, and electromagnetic radiation. This program gives students experience in measurement and observation, basic laboratory skills, and analysis of experimental data. **Physical Science level selection should match Freshman Math level selection. Changes may be made to student's course selection based on teacher recommendations and MCAS Scores. Students are required to have their own scientific calculator (TI-30XIIS or equivalent).**

Level 3

130104

This course is structured to provide coverage in the basic principles of physics which include motion, forces, energy, momentum, heat and heat transfer, waves, electromagnetism, and electromagnetic radiation. Emphasis is placed on thinking and study skills and the basics of measurement and laboratory skills and techniques. This course does not satisfy NCAA eligibility requirements. **Physical Science level selection should match Freshman Math level selection. Changes may be made to student's course selection based on teacher recommendations and MCAS Scores. Students are required to have their own scientific calculator (TI-30XIIS or equivalent).**

WORLD LANGUAGES

In order to satisfy most college's entrance requirements for foreign languages, a student should take at least two consecutive years of study (three and four years are preferable in the eyes of admissions counselors) in one of the following languages that offer a full sequence of courses: **Spanish or Portuguese.**

If an incoming Freshman student with a minimum of 1 year prior experience, would like to place into a Second Year course, the student must pass the Year 1 Final exam with a score of 85 or better. The student must also complete an oral proficiency exam in the target language. Please contact the Content Coordinator or the Guidance Department regarding this course change.

Summer Assignment Expectations:

All World Language courses have summer assignments associated with them. This includes all incoming Grade 9

students. These are assignments that require the students to work independently during the summer months. All assignments are due by September 1st and will be part of the term 1 grade for the student. Failure to follow directions will result in the student receiving a "0." In addition, the students will be assessed on the knowledge gained during the summer assignment process in subsequent assessments.

COURSE OFFERINGS: Available to all grades

Portuguese I

Levels 1, 2

110302, 120302

Much attention is given to pronunciation, the alphabet and sound system. Students are encouraged to communicate in the language at levels appropriate to their knowledge and ability. Basic skills in listening, reading, and writing are introduced. Ancillary materials are presented to foster an understanding of peoples and cultures. Critical thinking skills are emphasized. When choosing a level 1 class, it is important to understand that the class will move at a quicker pace. It is also important to note that the students in a level 1 course are expected to perform at mastery level with regards to grammar, application, and fluency.

Spanish I

Levels 1, 2

110402, 120402

Much attention is given to pronunciation, the alphabet and sound system. Students are encouraged to communicate in the language at levels appropriate to their knowledge and ability. Basic skills in listening, reading, and writing are introduced. Ancillary materials are presented to foster an understanding of peoples and cultures. Critical thinking skills are emphasized. When choosing a level 1 class, it is important to understand that the class will move at a quicker pace. It is also important to note that the students in a level 1 course are expected to perform at mastery level with regards to grammar, application and fluency.

Spanish II

Levels 1, 2

210402, 220402

Greater attention is given to the spoken language, with continued emphasis on listening, translating, learning grammatical patterns and developing better reading comprehension skills. Paragraph writing is introduced and short oral presentations are assigned. When choosing a level 1 class, it is important to understand that the class will move at a quicker pace. It is also important to note that the students in a level 1 course are expected to perform at mastery level with regards to grammar, application and fluency.

BUSINESS

Courses offered in Business are designed to introduce students to various career paths in Business Administration, Office Administration, Computer Information, Computer Science Engineering, and others.

* Articulation agreements with Bristol Community College are being reviewed and may offer students credit for courses taken at Somerset Berkley Regional High School.

CVTE – Refers to courses designated Career Vocational Tech Ed.

DECA- Refers to courses that support 'Distributive Education Clubs of America' activities and goals.

COURSE OFFERINGS:

Business and Personal Finance (DECA) (CVTE)*

Grades 9 - 12

Levels 2, 3

620205, 630205

This course of study is designed as a prequel to Accounting, Management and Marketing following NBEA standards. Students are engaged in the study of personal financial planning, banking and credit, investing financial resources, protecting personal finances, an introduction to business finance as well as organizational financial planning. Students are engaged in cooperative learning through groups and in the development of financial planning guides. Online Internet activities will allow reinforcement of skills learned. Technology tools used include financial planning software, PowerPoint presentations and virtual business simulations. 21st century skills and frameworks are an integral part of the program of applied learning. This course does not fulfill MCAS EPP math requirements. Level 3 students are allowed more time to complete assignments. Technology components include: online career interest surveys and interpretations, Microsoft Word software applications and Modern Language Art (MLA) formatting of all reports and essays, web-based Morningstar analysis of stocks, bonds and mutual funds as well as career portfolio preparations of resumes, cover letters and interviewing techniques.

Business Communications

Grades 9 -12

Levels 2, 3

620605, 630605

The course content includes the following topics: choosing a career, preparing for an interview, mock interviews, communication skills necessary in the business world, writing letters of application, follow-up letters, oral presentations, composing professional resumes and related topics. Computer access to word processing allows students to complete necessary tasks to develop a career portfolio. Students also are exposed to current trends in business and global economies. The internet is used for career exploration and research. 21st century skills and frameworks are an integral part of the program of applied learning. Level 3 students are allowed more time to complete assignments. Technology components include: online career interest surveys and interpretations, Microsoft Word software applications and Modern Language Art (MLA) formatting of all reports and essays, web-based Morningstar analysis of stocks, bonds and mutual funds as well as career portfolio preparations of resumes, cover letters and interviewing techniques.

Business Department Part-time Courses

Entrepreneurship (DECA)

Grades 9-12

3 periods per cycle

612053

Do you want to be your own boss? In this course students will identify the fundamentals of business creation, the personal attributes needed to be a successful entrepreneur, and will research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching and analyzing domestic, global and market trends. The course culminates with the student developing a hypothetical business plan and project to implement their unique venture that conforms to all applicable governmental laws and regulations. This course aligns with National Business Education Standards (NBEA) and is a DECA competition category.

Hospitality and Tourism (DECA)

Grades 9-12

3 periods per cycle

612159

This course welcomes students into the exciting and diverse hospitality and tourism industry. While providing an understanding of the scope and complexity of the industry, the course covers key hospitality issues, management definitions, and career opportunities available in restaurants, hotels, beverage operations, sports venues, entertainment centers, cruise lines, and countless other hospitality and tourism businesses. Topics include introduction to the skills involved in all aspects of the hospitality industry, including human resources, customer service, operations, marketing and promotion. This course is an asset to any student interested in exploring career opportunities in the hospitality and tourism industry. •DECA competition category

Sports/Entertainment Marketing (DECA)

Grades 9-12

3 periods per cycle

612163

The Sports and Entertainment industry is a major component of contemporary business and society offering individuals many interesting career opportunities. Venues in this area are all around us, not only at stadiums and theaters but also at thousands of universities, colleges and schools as well as on television, radio and the internet. Students taking this course will focus on the real world perspectives of branding, licensing, royalties, promotion, merchandising, pricing, ticket sales, event planning, broadcasting, and agency topics. Guest speakers, videos, and a field trip will be integrated in the class schedule.

ENGINEERING TECHNOLOGY

ENGINEERING TECHNOLOGY EDUCATION 9-12

The objectives of the High School Engineering Technology Program are to present courses which reflect the four major areas of technology: communication, manufacturing, transportation and construction and to give students basic skills and concepts in these areas in a "learn by doing" approach. Students in all engineering technology classes will be grouped heterogeneously regardless of their year in high school or level of designation.

Courses with the designation * may be used for credit at Bristol Community College in an equivalent (articulated) course.

All students will be expected to demonstrate imaginative, critical and reflective thinking. All students will be expected to demonstrate knowledge and usage of the principles of technology and to analyze and interpret technical literature and engineering drawings as well as works of historical and cultural significance. Students will understand the ethical use and responsibilities associated with technology in the workplace and in their personal lives. Each student will be expected to participate in oral class discussions and presentations, complete written assignments, maintain a portfolio of work, and keep anecdotal records of his or her work.

All Engineering Technology courses meet the curriculum requirements of the Massachusetts Frameworks for Technology and Standards for Technological Literacy and are taught as Level 2 courses. Level 1 students are required to complete assignments showing greater depth of understanding or skill and Level 3 students are given more time to complete their assignments.

Note: All lab courses may assess fees for take-home products. All students enrolled in hands on courses in engineering technology will be required to pass a safety exam prior to being allowed to conduct any hands-on work in the labs. Students will also complete a permission form that allows for 'walking' field trips outside the building to gather research materials.

*** Note: All Tech Prep and Advanced Tech students must meet level 1 or level 2 requirements.***

COURSE OFFERINGS:

Engineering Design

Grades 9 – 12

Levels 1, 2, 3

610106, 620106, 630106

Students will examine the steps of the engineering design process and produce original proposals for a variety of design challenges. "Project Based Learning" will be the main instructional strategy throughout this engineering course. This learning model allows students to design, build, test, and evaluate quality products and systems that meet world needs. Required assignments in the areas of Agricultural, Transportation, Construction, Manufacturing, Energy and Power technologies provide the 9-12 grade students with an understanding and appreciation of the designed world. The safe use of materials, power tools and machines highlight the student's engineering experience. Development of "Engineering Design" curriculum used the national Standards for Technological Literacy (STL) as published by the International Technology Education and Engineering Association (ITEEA). Our highly qualified teachers are active members in the ITEEA. Note* **Students selecting Level 1 will conduct research on engineering marvels in the world and examine the environmental, economic, social, ethical, health and safety impacts.**

Robotic Engineering

Grades 9-12

Level 1, 2, 3

610206, 620206, 630206

Robotics Engineering provides students opportunity to learn engineering concepts through experience and discovery. Students build, program and design real autonomous robots that can feel, touch and see. Students use hands-on engineering techniques to discover solutions to proposed design challenges and document outcomes in electronic portfolios. Robotics engineering engages students in learning that is both specific in its technological relevance and general in the way that the skills it requires, patience, problem solving, collaboration, communication, carry over to all facets of life and learning. This course is fundamental for students pursuing careers in the field of engineering and design. Level differentiation occurs by varying the complexity of the design challenge in terms of imposed design constraints. Design constraints in Robotics Engineering refer to the limitations on the conditions under which a robot is developed to satisfy a particular need. All students will be expected to develop solutions to challenges with embedded constraints; however, the type and quantity of constraints will differentiate the curriculum requirements for level one, two and three students.

Graphics Engineering

Grades 9-12

Levels 1, 2, 3

610306, 620306, 630306

This introductory course emphasizes exposure to a wide range of computer programs and research techniques for producing quality publications and presentations. Students will work with software programs such as: MS Word, MS Publisher, Adobe Photoshop and MS PowerPoint to design projects that cover business, advertising, and presentation applications. Students will be required to utilize the internet, library and their own personal creative resources as input material for products. Projects will also require students to use the an industrial Laser Color Copier and Ink Jet printers for scanning and reproducing computer-generated images and text. Bindery and other finish operations will be part of the course objective. Projects will include advertisements, flyers, maps, calendars, business cards, compact disc covers, slide shows and animated presentations. College-bound students and those considering a career in publishing, as well as, students that wish to improve their technology skills for related academic requirements, should consider this course as part of their studies. Students will build and maintain a web-based digital portfolio to showcase their work and be the primary source of assessment. Level 1 students will expand their portfolios to include other classes and school activities as a continuous graphics project throughout the school year.

Computer Diagnostics and Repair

Grades 9 - 12

Levels 1, 2, 3

611506, 621506, 631506

This course will provide students with hands on skills in the diagnosis and repair of personal computers. Students will tear down and rebuild PC systems and diagnose hardware and software problems, install software and solve software conflicts. Students will use diagnostic techniques and tools to evaluate problems, develop solutions, and the implement them in the most appropriate manner.

As an integral part of this course, students will develop an understanding the PC history, where we are today, and where the future may lead and how it impacts their lives through hands on lab work, research projects and class presentations. Computers impact our lives on a daily basis and everyone should know and understand how computers work and what may go wrong, even if they do not want to make the repairs themselves. Level 1 students will be required to do 2-3 additional assignments on their own time in addition to the normal class work . **This course can provide introductory skills which will prepare students to pass A+ certification exam for computer repair technicians.**

Computer Drafting and Design (CVTE)*

Grades 9 – 12

Levels 1, 2, 3

610506, 620506, 630506

Students enrolled in this course will learn the basics of Computer Aided Drafting. Students will complete assignments in the areas of single-view, orthographic projection, sectional, auxiliary, and isometric drawing. Additionally, each student will learn how to layout and produce complex drawings. Students will learn how to export CAD files to a 3D printer and turn their design into real components that can be used for complex assemblies. Students will document progress and demonstrate proficiency via portfolios. Level 1 students will be required to do 2 to 3 additional assignments on their own time in addition to the normal class work. This course is offered as both a fulltime elective (6 periods per cycle) and a part-time elective (3 periods per cycle). **Those students enrolled in the part-time class will need permission of the instructor to enroll in Advanced Computer Drafting.**

Intro to TV Media Production

Grades 9 - 12

Unleveled

601103

This course will provide students with an introduction to the skills and practices of on-location and in-studio video production. Students learn to use industry terminology and experience both the creative and technical aspects of video production. Working on both sides of the camera, students will learn skills associated with the three basic stages of project creation: pre-production, production, and post-production. These skills include: scriptwriting, camera setup and filming techniques, video editing, and in-studio operations. Throughout the year, students will create a variety of video projects including an in-studio show. This class will be held in the new state-of-the-art TV production studio and the programs that are produced will used by the school and the community. Students that elect to take this class must understand that there is a commitment to participate in taping and covering a wide array of events after school hours.

Intro to Computer Science

Grades 9 - 12

Unleveled

610152

With emphasis on computational thinking and collaboration, this year-long course provides an excellent entry point for students to begin or continue the Computer Science K-12 experience. Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. During Intro to Computer Science, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

Engineering Technology Department Part-time Courses

Intro to Computer Drafting and Design

Grades 9-12

3 periods per cycle

623506

Students enrolled in this course will learn the basics of Computer Aided Drafting. Students will complete assignments in the areas of single-view, orthographic projection, sectional, auxiliary, and isometric drawing. Students will document progress and demonstrate proficiency using digital portfolios. This course is best suited to students who may have an interest in CADD yet prefer the part-time approach to learning the AutoCADD LT engineering software. **Those students enrolled in the part-time class will need permission of the instructor to enroll in Computer Drafting II.**

Web Page Design

Grades 9-12

3 periods per cycle

601806

Students will explore web page designs by creating pages to serve various marketing functions. After taking this course you will have the skills necessary to design a web site that is easy to use and fulfills the needs of the users. Students will work independently to develop various styles of web sites using programs such as MS Publisher, Adobe Dreamweaver, and web based programs. The goal is to create sites that are easy to use, exciting and fulfill the needs of end-users. As part of this course you will also learn to understand the importance of graphic design in web page layouts and the use of animations, video and sound in a web

site. Students will be required to develop their own animation for a web site. The course will also encompass presenting and explaining your web site design to the class.

Games and Apps

Grades 9-12

3 periods per cycle

611153

This course is designed as an introductory-level programming course that does not require any prior experience in computer programming. Students will learn and apply computer science programming concepts by using a visual, object-oriented programming language (VPL). Students will program scripts to create shapes, characters, and objects that move and interact with each other to make their own animations and animated stories, including sound effects, audio and music. Eventually, students will learn to program more complex coding scripts to create their own simple interactive games. The computer science programming concepts learned in this course can be applied to learning more advanced syntax programming languages in future courses. Computer Science programming skills learned throughout this course include: computational thinking (sequence, loops, parallelism, events, conditional, operators, data) and computational thinking practices (experimenting and iterating, testing and debugging, reusing and remixing, abstracting and modularizing). The skills and knowledge learned in this course align with the MA Digital Literacy and Computer Science Standards and the National Computer Science Standards.

MUSIC

Performing Organizations:

The following performing organizations exist at Somerset Berkley Regional High School. Rehearsals and performances for these groups are both in and out of school. **Students will receive course credit for every rehearsal period that the class is scheduled for.** These organizations include performances at some or all of the following: Musictown Festival Concerts and Events, Vespers Concert, Spring Concerts, Music Festival Competitions, as well as New England Scholastic Band Association (NESBA) and United States Bands (USBands) Marching Band, Indoor Color Guard and Indoor Percussion Ensemble Competitions. Music of various styles is studied for the purpose of enriching the lives of these student musicians through cooperative individual participation. All of these organizations encourage the intellectual, musical and social development of the individual through the performance of high- quality music. Students who wish to participate in the Massachusetts Music Educators Association (MMEA) Southeast District and All-State Festivals, as well as the National Association for Music Education (NAFME) Festivals must be a member in good standing of an appropriate school performing organization.

INSTRUMENTAL ENSEMBLES

Concert Band

Grades 9-12

3 periods per cycle

60907

The concert band is open to all woodwind, brass and percussion students, grades 9 - 12, who have had at least 2 years of experience playing their instrument. ***Special consideration will be given for people with limited experience at the director's discretion.

Orchestra

Grades 9-12

4 periods per cycle

600747

This ensemble is open to all string players in grades 9 – 12, who have had at least 2 years' experience playing their instrument. ***Special consideration will be given for people with limited experience at the director's discretion.*** Woodwind, Brass and Percussion student musicians from the Symphonic Wind Ensemble may be selected to perform with the Orchestra to form a Symphonic Orchestra for select concerts.

VOCAL ENSEMBLES

Concert Choir

Grades 9-12

3 periods per cycle

600537

Membership in this organization is elective and is open to all students. **This class is a pre-requisite for all extra-curricular choral ensembles.**

COURSE OFFERINGS:

MUSIC FULL-TIME COURSES

History of Broadway

Grades 9–12

Levels 1, 2, 3

610207, 620207, 630207

This class meets six times per cycle and is an elective where the primary objective is to expose students to the rich history, heritage and evolution of the American Musical Comedy leading to a vast knowledge of New York's theatrical history from Vaudeville through modern day integrated musicals through the use of audio and visual media. Students will also develop an understanding of the production aspects of the theater world from the points of view of directors, producers and behind-the-scenes technicians. Students will also be required as part of this course to contribute to the Spring Musical Production whether it be during class time or as an extra-curricular participant. **No instrumental or choral experience required.**

Introduction to Music

Grades 9-12

605114

This class will cover the basics and more advanced of music theory, arranging, composition and ear training. This course is designed to enable students with experience in performing music, instrumentally or vocally, to take their musical skills to a higher level. With music theory, students will learn how the combination of melody, harmony and rhythm develop into music. Ear training will allow them to become better sight-readers and performers. These two skills will allow you the ability to compose and arrange their own music.

Music Department Part-time Courses

Music Production and Engineering

Grades 9-12

3 periods per cycle

600207

Music Production and Engineering meets three times in a cycle and designed for the student who is interested in music, but may not play an instrument. This class will spend much time exploring the newest forms of digital sound recording and manipulation on the computer through a process called sequencing. We will be investigating on-line resources and working with software programs such as Audacity, Finale, Garage Band, and Avid ProTools to create music without performing on traditional instruments. Students will be creating their own songs from the computer as well as arranging well-known popular, jazz, classical, and folk songs from online midi resources and then recorded on CD's or digital media. In addition to digital audio recording, students will learn about sound production and put those skills to practical use by providing sound engineering and digital recording services for school events, concerts and drama productions. **No Prerequisite: Playing an instrument or the ability to read music is NOT necessary for this course, but is beneficial.**

Vocal Techniques

Grades 9–12

3 period per cycle

605113

This class is designed to provide students with the fundamental techniques of singing well in both solo and ensemble. Music of all styles, periods and cultures will be studied. Students will expand their individual abilities with both solo and class ensemble performances. Students will also develop skills necessary to become an independent musician. **Requirements will be adjusted and arranged between the teacher and student.**

History of Rock 'n' Roll

Grades 9-12

3 periods per cycle

600107

The primary objective of this course is to expose students to American popular music in a variety of genres from 1950's pioneering rock 'n' roll to the contemporary genres of today's popular music, leading to an informed understanding of music as an art form. The primary function is to further the development of basic skills (such as structure/song form), broaden musical awareness and to understand how society influences the changing tide of musical styles. This course will explore the role that music plays in our everyday lives and students will be exposed to various media. No instrumental or choral experience required.

Piano/Keyboard Lab

Grades 9-12

3 periods per cycle

601107

The purpose of this class is to introduce and develop keyboard skills from beginner to intermediate. The class is recommended for Music Foundations, Jazz and Choral students as well as any other interested students. Each student may progress at their own speed, working individually and in groups. Included in this class will be the use of current electronic keyboards and electronic equipment, including sequencers, sound modules, and the Macintosh computer with music software. **This class requires no previous experience.**

FINE ARTS

ART PROGRAM

Grades 9-12

Levels 9, 1, 2, 3

Everyone possesses an aptitude for and is capable of developing a proficiency in one or more forms of art. Art is essential to the education of all students. Electing art affords the opportunity to develop and use an impressive assemblage of knowledge and skills. It provides extended learning opportunities. Many studies have documented the role of art in improving basic skills of learning areas in the curriculum. Students selecting one or more of the following courses will:

- Acquire and apply essential skills
- Use the arts to express ideas, emotions & beliefs
- Use imaginative, reflective, analytical & critical thinking
- Understand the visual arts in relation to history and culture
- Use technology
- Make connections among the arts and other disciplines

Attitude, interest, commitment and desire will play an important part of each student's success.

Please Note: Because of space constraints in art classes, it is necessary to limit the number of classes each student may take in the Visual Arts Department. Students who are enrolled in more than 1 class must be students planning a career in the arts and/or students who have demonstrated dedication and craftsmanship in studio courses. **Special permission must be acquired from the art department in order to be enrolled in more than one art course.**

COURSE OFFERINGS:

Introductory Studio Courses Open to All Grades, All Levels unless otherwise specified.

Intro to Pottery (formerly Ceramics)

3 periods per cycle

620108

First year pottery students will be introduced to the craft of hand building. The focus will be on tile making, slab boxes, pinched pots, coiled vessels and clay jewelry. Some projects will be supported by historical references. Students will explore the techniques of low relief carving, piercing, modeling, and stamping. Students will investigate the stages of clay bodies, glazing, and the firing process. In addition, students will be introduced to the potter's wheel to explore the throwing process.

Drawing & 2-Dimensional Design

3 periods per cycle

621208

Drawing I will teach basic techniques of drawing and painting with an emphasis on the elements and principles of design. Through the completion of a series of sequential projects, students will strengthen their ability to draw and paint expressively while using basic formal techniques. Students will achieve a greater understanding of the elements and principles of design through contour drawing, value studies, color theory, perspective, and printmaking.

Jewelry, Metals, and Stained Glass

3 periods per cycle

622108

The first year in this course provides students with a foundation in the studio disciplines of jewelry/metals and stained glass. Students receive instruction through a series of hands-on, sequential assignments that focus on design fundamentals as well as basic fabrication skills and techniques. Students will achieve a greater understanding of craftsmanship while creating original works in each discipline. The course is divided into two units of study: terms one and two focus on the study of metalsmithing and jewelry making while terms three and four investigate the discipline of stained glass.

Art Department Part-time Courses

Open to All Grades, All Levels unless otherwise specified.

Exploration in Art (formerly Art Foundations)

3 periods per cycle

624108

Explorations in Art is an introductory class that will provide students with a well-rounded experience in 2-dimensional and 3-dimensional art/design. Students will be exposed to various media, processes and art forms such as sculpture, collage, altered art, painting and drawing from observation. Contemporary and historical art will be integrated throughout the course. This class provides a sampling of experiences in the fine arts.

Looking at Art thru Time

3 periods per cycle

605608

Looking at the objects, art and buildings people make helps us to understand them better. This course takes a visual approach to learning history and allows students to be inspired by human creativity. The course is a traditional discussion-based course paired with minimal art-making activities. No preexisting art ability is required!

Intro to Textile and Fashion Design

3 periods per cycle

605164

This is a beginning course for designers looking to develop their skills in the areas of color, pattern design and simple fabric construction. Students will create their own prints and patterns using beginning textile processes such as stamping, printing, image transfer and fabric dyeing. Students will explore the elements of art and principles of design in a series of projects that move from two-dimensions to three-dimensions. Basic hand stitching and machine sewing will be introduced as students progress from making basic prints to creating basic apparel, fashion and interior accessories.

Wellness Department

Health I

Grade 9

3 periods per cycle (1 semester)

160110

Health I is a **required** course for all 9th grade students. The major objective is to prepare all students to become more informed and responsible members of the Somerset Berkley Regional High School community. Areas discussed include: social and emotional health issues, suicide, teen depression, stress management, reproductive anatomy, physiology and current issues including bullying, violence prevention and disease. .

Physical Education

Grade 9

2 periods per cycle

Program of Study

168001

Physical Education is a required course for all Somerset Berkley Regional High School students. Every student must pass 4 years of physical education. Physical education is an integral part of the school curriculum. Freshmen will begin their wellness path by being introduced to CPR/AED training, team building and cooperative games, fitness, low impact sports and team sports. **A complete change of clothing (proper gym attire) is required for all classes. Student should bring a lock to class to lock up their belongings. Clothes will be taken home at the end of each class.**