2021-22

BHS Program of Studies Proposed Changes Executive Summary

February 23, 2021

Blue text: New/additions Red text: Removed

*Grammar, punctuation, and stylistic changes highlighted in document for all content areas

	COMPUTER	CIENCE	
Page(s)	Proposed Change	Rationale	
23	Remove existing Computer Science and Programming courses and streamline them into rebranded Computer Science courses	Some of the curriculum overlaps to Programming and Intro to Com courses; change will allow for mo individualized courses and a more progression for students to furthe understanding of Computer Scier	nputer Science re e sequential r their
	INTRODUCTION TO COMPUTER SCIENCE	Heterogeneous	Course #2620
	behaviors and components, and the Internet, using HTML and CSS to develop web pages. They are introduced to visual programming languages like Scratch to create animated simulations and design games. The course introduces students to topics such as variables, conditionals, loops, and arrays using text based programming languages such as Python, while building internet and mobile applications. In addition, students are exposed to an overview of computing and its influence on modern society.		
	INTRODUCTION TO PROGRAMMINGHeterogeneousCourse #2610Prerequisite: NoneThis course is a general introduction to programming. The course covers basic syntax for terminal I/O, conditionals, loops, arrays, searching and sorting using C. Students learn to write, compile, debug, and run C programs in a Windows PC environment. The course also introduces binary, octal and hexadecimal number systems.		
		Heterogeneous	Course #
	Prerequisites: None CS Discoveries is an introductory course designed for 9-10th grade students new to computer science and is based on the Code.org program. Mapped to CSTA standards, the course takes a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user-centered design, and data, while inspiring students as they build their own websites, apps, games, and physical computing devices.		
		High Honors	Course #
	Prerequisite: None AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will 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. It is important to note that the AP Computer Science Principles course does not have a designated programming language. Students will explore various languages within the programs.		

	GI	ENERAL	
Page(s)	Proposed Change	Rationale	
26-28, 35, 54, 57-59	Listed all courses offered within sub-separate program	Courses were not previ	ously listed
	INTEGRATED MATH I College Prep Course #7723 Prerequisite: Teacher recommendation only This course will solidify and extend 8th grade math standards in addition to learning inequalities, creating and solving and modelling linear and exponential functions, using function notation, and solving systems of equations. Geometry standards will include transformations and coordinate Geometry. Introductory statistics will include interpreting and summarizing one and two-variable data involving categorical or quantitative variables. Course content is focused on Massachusetts Curriculum Frameworks related to Algebra, Geometry and Statistics. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.		
	INTEGRATED MATH II	College Prep	Course #7724
	Prerequisite: Teacher recommendation only Students will interpret linear functions, work with radicals and properties of exponents, and focus on quadratic functions. Geometry concepts will include volume, similarity, the pythagorean theorem and special right triangles, circles, and probability. Course content is focused on Massachusetts Curriculum Frameworks related to Algebra, Geometry and Statistics. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.		
	INTEGRATED MATH III	College Prep	Course #7725
	Prerequisite: Teacher recommendation only Students will focus on modelling polynomial, exponential, logarithmic and trigonometric functions. Students will extend their understanding of probability and statistics to draw inferences and conclusions from sets of data. Course content is focused on Massachusetts Curriculum Frameworks related to Algebra, Geometry and Statistics. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.		
	INTEGRATED MATH IV	College Prep	Course #7726
	Prerequisite: Teacher recommendation only Students will manipulate more advanced alge and work with sequences and series. Studen trigonometry and solve trig equations and id Course content is focused on Massachuse Statistics. Enrollment in this course is only individualized plan.	nts will develop an understanding o entities. Statistics and Probability w tts Curriculum Frameworks related	f the unit circle and triangle vill be explored more deeply. to Algebra, Geometry and
	LAB SCIENCE I	Heterogeneous	Course: 7731
		Heterogeneous	Course: 7732
	LAB SCIENCE III LAB SCIENCE IV	Heterogeneous Heterogeneous	Course: 7733 Course: 7734
	Prerequisite: School and Counseling Approval The Lab Science course is designed to reflect the development of the Science and Engineering practices through the Science, Technology, and Engineering frameworks of Massachusetts. Each section is customized to meet the needs of the individual student to continue the development of their knowledge and application of science concepts. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.		

	Concepts are introduced using a balance of abstract and concrete approaches. The sources are typically at grade level. Students are expected to be able to engage in both independent and collaborative work. Teachers provide instruction and scaffolding regarding study skills, organizational skills and learning strategies to help students become independent learners. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.			
	Concepts are introduced using a balance of abstract at level. Students are expected to be able to engage provide instruction and scaffolding regarding study	College Prep Course #**** nd concrete approaches. The sources are typically at grade e in both independent and collaborative work. Teachers skills, organizational skills and learning strategies to help in this course is only with permission from an administrator		
	ISSUES IN MODERN WORLD HISTORY	College Prep Course #****		
	Concepts are introduced using a balance of abstract and concrete approaches. The sources are typically at grad level. Students are expected to be able to engage in both independent and collaborative work. Teacher provide instruction and scaffolding regarding study skills, organizational skills and learning strategies to her students become independent learners. Enrollment in this course is only with permission from an administrat or as dictated by an individualized plan.			
	ISSUES IN UNITED STATES HISTORYCollege PrepCourse #***The sources are typically at grade level.Students are expected to be able to engage in both independent and collaborative work. Teachers provide instruction and scaffolding regarding study skills, organizational skills and learning strategies to help students become independent learners. Enrollment in this course is only with permission from an administrator or as dictated by an individualized plan.			
72	Listed Learning Center as a course offering	Course was not previously listed		
	LEARNING CENTER Pass / Fail 2.5 / 5 Credits Prerequisite: Administrative Approval or as determined by individualized plan Learning Center is an individualized support class designed to meet students' individual academic needs. Skills instruction can include, but is not limited to, organization and study skills, written expression skills, reading comprehension skills and math problem solving.			
	GUIDANCE & CO	UNSELING		
Page(s)	Proposed Change	Rationale		
6	Reflect previously approved GPA changes within Program of Studies	Accurately reflect current practice		
	*For the classes of 2022 and 2023, the GPA will include term 1 and term 2 of the student's senior year in the GPA calculation. The GPA will be calculated after both term 1 and, again, after term 2. This practice will be revisited in three years to determine whether it will continue.			
MATH				
Page(s)	Proposed Change	Rationale		

34, 36	New course: Foundations of Geometry	Replace Math Applications that would be removed from the Program of Studies; provide more sequential math support for students from previously replaced STEM course	
	Placement by 9th Grade Teacher Recommendation of This course is the second part of a two-year sequen	College Prep Course # only. Ince focused on extending and deepening understanding of g on Geometry and Statistics. The content of this course	
		formations, congruence, similarity, special triangles, circles,	
	PERFORMIN	G ARTS	
Page(s)	Proposed Change	Rationale	
46-47	Split Orchestra course and add two new courses: Beginning Orchestra and Chamber Orchestra	Expand orchestral offerings and allow for greater differentiation between students with prior musical experience and those who are becoming introduced into the field	
	BEGINNING ORCHESTRACollege PrepCThis course will be for students who do NOT already play a string instrument and would like to start at the school level, OR students who already play a string instrument but would like to explore a different instrument. Students will learn from a method/lesson book in a mixed ensemble setting to build skills are performance opportunities throughout the school year. Grading will be based on completion of lesson units and classwork. Students may use an instrument that they already own, or choose to rent a branch instrument. In some cases, the school may own an instrument that a student may borrow while enrolled course. Students who advance quickly in their studies may be invited to perform with the BHS Orchestra.		
	 Prerequisite: Approval of Instructor to determine apperts of the orchestra is an advanced performance-based ensityles and time periods. This course is open to any viola, cello, bass, harp, or piano). Two sections of the enroll in 1 or 2 sections. Skills necessary for ensidevelopment of technical ability, tone production and recommended that students in this ensemble take ppis mandatory. Prior to each concert there will be a rehearsal participation and behavior, concert and d more than two pianists per section will be accepted slots. CHAMBER ORCHESTRA Prerequisite: By audition only. To audition one of the Orchestra is an advanced performance-high-caliber orchestral literature from a wide variety and Classical Chamber Music. String students will be and advanced technique skills (phrasing, vibrato, shift learning abilities as demonstrated in participation Instruction and practice in independent group orchested is a statement of the provide the orchest of the provide the provi	semble that performs music from a wide variety of musical students who play an orchestral string instrument (violin, he course will be offered and students will be allowed to semble performance will be stressed, which include the d sight-reading. At home practice is expected. It is strongly rivate lessons. Participation in all concerts or performances mandatory, evening rehearsal. Grades will be based upon ress rehearsal attendance, and recording assignments. No d. If needed, auditions will be held to fill the accompanist Honors Course ? must be a current member of Concert Choir, Band, or	

	mandatory. Prior to each concert there will be a	. Participation in all concerts or or outside performances is mandatory, evening rehearsal. Grades will be based upon ess rehearsal attendance, and recording assignments.				
	WELLNESS					
Page(s)	Proposed Change	Rationale				
62	Revise course name & description for Health	More accurately reflect the curriculum for the class				
	HEALTH AND FITNESS Course #9150 During this course, students will apply and build on the skills and concepts learned in Health I. The students will utilize communication, decision making, goal setting and self advocacy skills. The content through which the skills will be used include: healthy vs. unhealthy relationships, alcohol, drugs, distracted driving, growth and development, pregnancy, sexually transmitted infections, and contraception. This course will establish a foundation of skill-based health. The first half of the year will include: factual information on nutrition, mental health, stress and stress management techniques in addition to topics on communication, refusal, assertiveness/self-advocacy, decision making goal setting and internet safety and responsibility. The second half of the year will include: healthy vs. unhealthy relationships, alcohol, drugs, distracted driving, growth and development, pregnancy, sexually transmitted infections, and contraception.					
	WORLD LAN	IGUAGE				
Page(s)	Proposed Change	Rationale				
70	New course: Spanish for Native/Heritage Learners II	Allow for students to advance their understanding with an optional second-year to the course for those who are interested or demonstrate proficiency				
	SPANISH FOR NATIVE/HERITAGE LEARNERS I HonorsCourse #4384Prerequisites: Teacher recommendation and Program Director ApprovalConducted in an immersion style, this course is designed to meet the needs of students who speak Spanish at home or elsewhere and therefore would not benefit from a traditional world language course. Students will improve their reading and writing skills and will enhance their listening and speaking skills. Students will strengthen grammar, vocabulary, and cultural knowledge as they explore literature, history, art and current events. The curriculum will also include exposure to Advanced Placement historical and cultural materials as part of the students' preparation for completion of the ACTFL Assessment of Performance toward Proficiency in Languages (AAPPL), a measure used to determine eligibility for the Massachusetts Seal of Biliteracy. Students enrolled in this course will take on increased responsibility for using their class time productively and independently.SPANISH FOR NATIVE/HERITAGE LEARNERS II HonorsCourse #4394Prerequisites: Teacher recommendation and Program Director ApprovalConducted in an immersion style, these courses are designed to meet the unique needs of students who speak Spanish at home or elsewhere and therefore would not benefit from a traditional world language course. These courses build upon existing Spanish linguistic and cultural knowledge and experiences of Spanish heritage speakers. This sequence of courses addresses linguistic and cultural variations within the Spanish-speaking world and aims to support students in improving reading comprehension, reviews grammar terms, and practices translation. Through their coursework, students will develop accuracy and appropriate register for professional situations and improve oral communication and writing skills, with strong emphasis					