January 2, 2019 Staples High School

WESTPORT BOARD OF EDUCATION

AGENDA*

(Agenda Subject to Modification in Accordance with Law)

PUBLIC CALL TO ORDER/PLEDGE OF ALLEGIANCE

7:30 p.m., Staples High School, Cafeteria

ANNOUNCEMENTS FROM BOARD AND ADMINISTRATION

PUBLIC QUESTIONS/COMMENTS ON NON-AGENDA ITEMS (15 MINUTES)

MINUTES: December 3 and 17, 2018, pages 1-9

4. Education and Physical Plant Strategy / NextGenEd

DISCUSSION/ACTION

1.	 Proposed Course Additions, Deletions, Modifications, 6-12 Applied Algorithmic Design, pages 11-16 Mobile App Development, pages 17-22 	(Encl.)	Dr. Anthony Buono Dr. AJ Scheetz
2.	CMS Task Force		Mr. Mark Mathias
3.	Portable Classrooms for Bedford Middle School		Mr. Mark Mathias

DISCUSSION

1. 2019-20 Transition Planning Update Dr. Colleen Palmer Dr. Anthony Buono

Mr. Mark Mathias

UPDATES

1. November Health and Medical Report, page 23 (Encl.) Mr. Elio Longo

2. Finance and Facilities Committee Ms. Elaine Whitney Mr. Neil Phillips

3. Teaching and Learning Committee Ms. Candice Savin

ADJOURNMENT

*A 2/3 vote is required to go to executive session, to add a topic to the agenda of a regular meeting, or to start a new topic after 10:30 p.m. The meeting can also be viewed on Cablevision on channel 78; Frontier channel 6021 and by video stream @www.westportps.org PUBLIC PARTICIPATION WELCOME USING THE FOLLOWING GUIDELINES:

- Comment on non-agenda topics will occur during the first 15 minutes except when staff or guest presentations are scheduled.
- Board will not engage in dialogue on non-agenda items.
- Public may speak as agenda topics come up for discussion or information.
- Speakers on non-agenda items are limited to 2 minutes each, except by prior arrangement with chair.
- Speakers on agenda items are limited to 3 minutes each, except by prior arrangement with chair.
- Speakers must give name and use microphone.
- Responses to questions may be deferred if answers not immediately available.
- Public comment is normally not invited for topics listed for action after having been publicly discussed at one or more meetings.

Meeting: December 3, 2018

WESTPORT BOARD OF EDUCATION MINUTES

Board Members Present: Administrators Present:

Mark Mathias Chair Colleen Palmer Superintendent of Schools

Jeannie Smith Vice Chair Anthony Buono Asst. Superintendent of Teaching and Learning Elaine Whitney Secretary Tina Mannarino Asst.. Superintendent Pupil Personnel Services

Karen Kleine Elio Longo Chief Financial Officer

Vik Muktavaram John Bayers Director of Human Resources

Candice Savin Neil Phillips

PUBLIC CALL TO ORDER/PLEDGE OF ALLEGIANCE: 7:37 p.m., Staples High School Cafeteria B (Room 301)

ANNOUNCEMENTS FROM BOARD AND ADMINISTRATION

PUBLIC QUESTIONS/COMMENTS ON NON-AGENDA ITEMS

MINUTES: November 19, 26 and 27, 2018

Elaine Whitney moved to approve the minutes of November 19, 26 and 27, 2018 seconded by Mark Mathias and passed unanimously.

ELECTION OF OFFICERS OF THE BOARD OF EDUCATION

Be it resolved, that the Board of Education elects Mark Mathias to serve as Chair of the Westport Board of Education, said election effective until the next annual Board of Education election of officers.

MOTION: Jeannie Smith SECOND: Neil Phillips

RESULT: Passed Unanimously

VOTE: 7-0

Be it resolved, that the Board of Education elects Jeannie Smith to serve as Vice Chair of the Westport Board of Education, said election effective until the next annual Board of Education election of officers.

MOTION: Mark Mathias SECOND: Karen Kleine

RESULT: Passed Unanimously

VOTE: 7-0

Be it resolved, that the Board of Education elects Elaine Whitney to serve as Secretary of the Westport Board of Education, said election effective until the next annual Board of Education election of officers.

MOTION: Vik Muktavaram SECOND: Candice Savin

RESULT: Passed Unanimously

VOTE: 6-0-1 (Elaine Whitney abstaining)

Mark Mathias moved to change the Middle Schools Update agenda item to a discussion/action item and to defer the Approval of FY 2020 Budget Preparation Calendar agenda item to a future meeting; seconded by Jeannie Smith and passed unanimously.

DISCUSSION

Report from the Community Advisory Committee for 2019-20 Academic Year

Discussion of Superintendent Review of Facility Utilization Options 2019-20 Academic Year

Mark Mathias moved to continue with the Middle Schools Update agenda item as it was after 10:30 p.m.; seconded by Vik Muktavaram and passed unanimously.

DISCUSSION/ACTION:

Middle Schools Update

- Portables
- Rental Opportunities
- Parent Feedback Sessions

Be it resolved, that the Board of Education will not close any elementary school as part of its facilities usage plan for the FY 2019 - FY 2020 school year, whether to use said elementary school building to house either Coleytown Middle School students or the 6th grade, or otherwise.

MOTION: Candice Savin SECOND: Jeannie Smith

RESULT: Passed

VOTE: 4-3 (Jeannie Smith, Elaine Whitney, Candice Savin and Neil Phillips in favor;

Mark Mathias, Karen Kleine and Vik Muktavaram opposed)

Be it resolved, that upon the recommendation of the Community Advisory Committee, the Board of Education removes Option VI from further consideration, said option to have all 6th, 7th and 8th grade students attend Bedford Middle School with a nine-period schedule from 8:00 a.m. to 2:45 p.m.

MOTION: Vik Muktavaram SECOND: Candice Savin

RESULT: Failed

VOTE: 1-6 (Vik Muktavaram in favor)

No action was taken on portables or rental opportunities, pending additional information.

Approval of FY 2020 Budget Preparation Calendar Deferred to a future meeting

Master Facilities Plan RFP
Deferred to a future meeting

Elementary Staffing Grid

Deferred to a future meeting

UPDATES

October Health and Medical Report

Deferred to a future meeting

Finance and Facilities Committee
Deferred to a future meeting

Policy Committee

Deferred to a future meeting

Teaching and Learning Committee
Deferred to a future meeting

ADJOURNMENT: Mark Mathias moved to adjourn at 11:36 p.m.; seconded by Neil Phillips and passed unanimously.

Respectfully submitted, Elaine Whitney, Secretary (Minutes written by Lisa Marriott) Meeting: December 17, 2018

WESTPORT BOARD OF EDUCATION MINUTES MEETING

Board Members Present: Administrators Present:

Mark Mathias Chair Colleen Palmer Superintendent of Schools

Jeannie Smith Vice Chair Anthony Buono Asst. Superintendent of Teaching and Learning Elaine Whitney Secretary Tina Mannarino Asst.. Superintendent Pupil Personnel Services

Karen Kleine Elio Longo Chief Financial Officer

Vik Muktavaram John Bayers Director of Human Resources

Candice Savin Neil Phillips

PUBLIC CALL TO ORDER/PLEDGE OF ALLEGIANCE: 7:32 p.m., Staples High School, Cafeteria B

ANNOUNCEMENTS FROM BOARD AND ADMINISTRATION

PUBLIC QUESTIONS/COMMENTS ON NON-AGENDA ITEMS (15 MINUTES)

MINUTES: December 3 and 10, 2018

Elaine Whitney moved to approve the minutes of December 3 and December 10, 2018; seconded by Karen Kleine. The Board unanimously approved the minutes of December 10, 2018. The Board also deferred by consensus approval of the minutes of December 3, 2018 in order to incorporate a requested edit.

DISCUSSION/ACTION:

Update on Board Requests for Additional Information Concerning the Plan for District Facility Utilization PreK-12 Commencing with the 2019-20 Academic Year

Mark Mathias moved to continue with the next agenda item as it was after 10:30 p.m.; seconded by Jeannie Smith and passed unanimously.

Possible Vote on the Plan for District Facilities Utilization PreK-12 Commencing with the FY 2019 - FY 2020 Academic Year

Be it resolved, that upon the recommendation of the Superintendent of Schools, the Board of Education adopts a short-term plan for K-6 elementary school programming whereby 6th grade students will be housed in the elementary schools, with a team model, beginning with the FY 2019 - FY 2020 school year, subject to the development of an academic schedule with an emphasis on maintaining the current academic program to the extent practicable, and consistent with academic best practices.

MOTION: Elaine Whitney SECOND: Neil Phillips

Motion to amend the motion to approve the 6-8 at BMS option:

Vik Muktavram moved to replace the words "K-6 elementary school programming whereby 6th grade students will be housed in the elementary schools, with a team model, beginning with" with "middle school programming to have grades 6 through 8 at Bedford Middle School for", and to remove the phrase "upon the recommendation of the Superintendent of Schools" and all language after "the FY 2019 - FY 2020 school year", resulting in the following proposed amended motion:

Be it resolved, that the Board of Education adopts a short-term plan for middle school programming to have grades 6 through 8 at Bedford Middle School for the FY 2019 - FY 2020 school year.

MOTION: Vik Muktavaram SECOND: Karen Kleine

RESULT: Failed

VOTE: 2-5 (Karen Kleine and Vik Muktavaram in favor; Mark Mathias, Jeannie

Smith, Elaine Whitney, Candice Savin and Neil Phillips opposed)

Return to vote on original motion to approve the K-6 option with conditions:

RESULT: Passed

VOTE: 5-2 (Mark Mathias, Jeannie Smith, Elaine Whitney, Candice Savin and Neil

Phillips in favor; Karen Kleine and Vik Muktavaram opposed)

At 12:01 a.m., Mark Mathias moved to move up and continue with the Proposed Course Additions, Deletions, Modifications discussion agenda item before concluding the Possible Vote on the Plan for District Facilities Utilization PreK-12 Commencing with the FY 2019 - FY 2020 Academic Year discussion/action item, as it was after 10:30 p.m., and to accommodate a staff member scheduled to present to the Board; seconded by Jeannie Smith and passed unanimously.

DISCUSSION

Proposed Course Additions, Deletions, Modifications

- Algorithmic Design
- Mobile App Development

**

Continuation of the Possible Vote on the Plan for District Facilities Utilization PreK-12 Commencing with the FY 2019 - FY 2020 Academic Year discussion/action item

DISCUSSION/ACTION:

Continuation: Possible Vote on the Plan for District Facilities Utilization PreK-12 Commencing with the FY 2019 - FY 2020 Academic Year

Be it Resolved, that the Board of Education will develop a long-term vision and plan for future educational programming and facilities in the Westport Public Schools, said plan to be completed by September 2019.

MOTION: Elaine Whitney SECOND: Candice Savin

RESULT: Passed

VOTE: 6-1 (Vik Muktavaram opposed)

Be it Resolved, that the Board of Education establishes the CMS Building Task Force, an ad hoc committee of the Board of Education for the FY 2018 - FY 2019 school year, to explore options for bringing the Coleytown Middle School building back on line for use for educational programming, and to make recommendations to the Board of Education about such options.

MOTION:

Elaine Whitney

SECOND:

Vik Muktavaram

RESULT:

Passed Unanimously

VOTE:

7-0

At 12:27 a.m., Mark Mathias moved to continue with the discussion/action agenda items Master Facilities Plan RFP and Approval of FY 2020 Budget Preparation Calendar, as it was after 10:30 p.m.; seconded by Karen Kleine and passed unanimously.

Master Facilities Plan RFP

Be it Resolved, that upon the recommendation of the Superintendent of Schools, the Board of Education authorizes the Superintendent or her designee to publish RFP 19-006: Master Facilities Plan Consultant, as presented to the Board of Education and as modified at its meeting of December 17, 2018.

MOTION: Candice Savin SECOND: Karen Kleine

RESULT: Passed Unanimously

VOTE: 7-0

Approval of FY 2020 Budget Preparation Calendar

Be it resolved, that upon the recommendation of the Superintendent of Schools, the Board of Education approves the 2019-2020 Budget Preparation Calendar presented at the meeting of December 17, 2018.

MOTION: Mark Mathias SECOND: Jeannie Smith

RESULT: Passed Unanimously

VOTE: 7-0

Possible Vote on Portables

Deferred to a future meeting

DISCUSSION

Westport NextGenEd Vision

Deferred to a future meeting

UPDATES

November Health and Medical Report

Deferred to a future meeting

Finance and Facilities Committee

Deferred to a future meeting

Teaching and Learning Committee

Deferred to a future meeting

ADJOURNMENT: Mark Mathias moved to adjourn at 12:44 a..m. on December 18, 2018; seconded by Jeannie Smith and passed unanimously.

Respectfully submitted, Elaine Whitney, Secretary (Minutes written by Lisa Marriott) This page has been intentionally left blank.

STAPLES HIGH SCHOOL

NEW COURSE PROPOSAL FORM

Course Title: Applied A	Algorithmic Design
Credit: 0.5	
Credit Area(s): Science	
Course Proposed by:	Administration Board of Education
	Student(s) K-12 Curriculum Review
	X Department Other (specify)
Course Catalog Descri	otion:
Applied Algorithmic I	Design
from Introduction to Prosome of the algorithms algorithms and tree/fraction randomization techniques	at complex algorithms to build sophisticated programs, leveraging their knowledge ogramming (which focused mostly on syntax and simple algorithms). Examples of that will be investigated include path-finding algorithms, collision detection etal algorithms. Feedback loops, simple AI, state machines, sprite mechanics and les will also be covered as components necessary for developing more sophisticated yledge of algorithms and strategies will allow students to develop more realistic and
Introduction to Program	nming
	COURSE/DEPARTMENT INFORMATION:
How many electives doe	s your department currently offer?
Twenty nine	

How does this course fit into the course offerings?

(Is it a stand alone, is it part of a sequence or is it replacing another course?)

This course is designed to follow Introduction to Programming but it may be taken at any time after that. It will allow students to develop a deeper understanding of and become more fluent in complex programming constructs not covered in our AP-level class.

Unit	Essential Questions	Standards	Content
Collision Detection Algorithms, Noise/Fractal Algorithms, Path-Finding Algorithms	we use algorithms to create	complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	Students will investigate the varieties of collision detection algorithms, for varieties of shapes and surfaces on objects. They will investigate using fractal algorithms to develop scenery, for example, and path finding to move sprites through landscapes. Students will use concepts to develop their own versions of these ideas in their own program.
O ,	mechanics interact with a program to change the	and/or computer simulations to predict the effects of a design solution on systems and/or the interactions between systems.	Students will investigate different types of interactions with programs to understand how feedback loops might affect user behavior. Students will investigate AI, game mechanics state machines and randomization to experience the effects on their own programs. Students will select techniques to incorporate into their own projects.
Building a game or simulation		(HS-ETS1-2). Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through	Students will incorporate the components developed throughout the semester into a complex game of simulation.

Who is your target audience?

Any student who has completed Introduction to Programming.

Has your department discussed the pros and cons of this submission?

Yes. We discussed in February.

What percentage of the department voted "yes" to bring this course forward?

88% of department voted yes.

RATIONALE:

How does this course contribute to the department's goals and objectives?

The department's general goal is to produce graduates who are informed consumers of science information and who are well prepared to pursue a career in STEM if they choose to do so. This course allows students to develop stronger programming skills, while also helps students develop an interest in how the programs work from a Computer Science point of view.

This course addresses the need to satisfy student's desire for additional programming courses through their high school career. How does this course support the recommendation of the latest K-12 review? How does this align to your current department accepted standards? Please see the table above. This course aligns directly with the new state science standards, the NGSS. How does this course support the Staples Mission Statement? The Staples High School community inspires learning, fosters integrity, and nurtures empathy. This course will fulfill all elements of the Staples Mission Statement through real-world and career connections through the study of embedded systems programming. Students will engage in inquiry, explore problems and solutions. How does this course support the goals of the Westport 2025 initiative? Creative→ Students will be encouraged and indeed taught to ask questions about the way algorithms operate, to attempt to answer those questions, and to look for unexpected results. Communication

During collaborative learning, students will advocate for their ideas but also work together to come to solve problems and build solutions. Critical Thinking

Students will be asked to connect their new learning to create a new understanding. They will base decisions on what they need to learn next based on prior knowledge, and they will break down ideas into their most fundamental/mechanistic level. Global Thinking

Students will always be working on meaningful problems since they will see the coherence between what they are trying to figure out and what they have already learned. Through collaborative learning, they will gain an understanding of the problem through discussion of different points of view.

What is the need this course addresses?

Establish a flow chart of courses and indicate where this course will fit in.

The sequences for the semester long courses are as follows. Introduction to Programming is a prequisite for the other Introductory courses. Web courses and Embedded courses can be taken in any order.

Advanced courses are identified in *italics*. The prequesites for those courses ar the appropriate Introductory course.

Students may choose to take the courses as introductory and advanced for each topic or students may choose to take each of the introductory courses before choosing any advanced options. Other combinations are certainly possible.

Java Programming	Web and Mobile	Embedded
Introduction to Programming 1 semester	Introduction to Web Programming 1 semester	Introduction to Embedded Systems 1 semester
Applied Algorithmic Design 1 semester	Building Web APPs 1 semester	
	Building Mobile APPs 1 semester (if approved)	

OR:

Java Programming	Embedded	Web and Mobile
Introduction to Programming 1 semester	Introduction to Embedded Systems 1 semester	Introduction to Web Programming 1 semester
Applied Algorithmic Design 1 semester		Building Web APPs I semester
		Building Mobile APPs I semester (if approved)

Year Long Course:

Advanced Placement Computer Science can be taken any time after Introduction to Programming. It can be taken concurrently with additional computer science courses.

Introduction to Programming 1 Semester	Advanced Placement Computer Science Full Year
--	--

STAPLES EXPECTATIONS FOR STUDENT LEARNING:

Academic Expectations:

Students will be expected to engage in nonfiction reading and writing in this course.

Students will be expected to work across disciplines and use prior knowledge to drive conclusions and solutions.

Students will be expected to collaborate, communuicate, and connect ideas.

Civic Expectations:

Perseverance in spite of difficulties; supporting each other when stuck.

Communicating and Critiquing Conclusions

Taking Informed Action/Advocacy

Social Expectations:

Collaborating to research and solve problems

Work with real-world issues, explore careers in the field

Student Learning Outcomes:

Skills (what students will be able to do):

Analyze and interpret data, particularly when debugging programs and systems.

Use mathematics and computational thinking to design algorithms and models for their systems.

Constructing explanations and designing solutions

Assessment(s):

- Problem Sets Stand-alone Programs, Simulations, and Games
- Performance-based assessments

BUDGET AND FACILITY CONSIDERATIONS:

Staffing Requirements:

Will this create an additional staffing need within the department?

We do not anticipate any impact on staffing
Budget Requirements:
Equipment, materials, textbooks? Please distinguish between a one time only and a yearly expense.
Students will bring their own devices for programming
Facility Requirements:
Minimum Number of Students Needed to Run this Class: 15
Is there classroom availability within the department for this class? If not, how will this class be accommodated within the school?
We will be drawing from the same student population, so there should be minimal impact on science instructional space.
Are there physical needs or limitations for this course? (water, power, room size, etc.)

STAPLES HIGH SCHOOL

NEW COURSE PROPOSAL FORM

Course Title: Mobile APP Development				
Credit: 0.5				
Credit Area(s): Science	2			
Course Proposed by:	Administration Board of Education			
	Student(s) K-12 Curriculum Review			
	X Department Other (specify)			
Course Catalog Descri	ption:			
Mobile APP Developm	nent			
devices such as a phone integration with the pla	will learn how to build Mobile APPs, standalone programs that operate in mobile e or tablet. Students will use front-end development tools for UI design and atform SDK to access device features. Students will integrate their APP with back-end ntication, data services, security and metrics. By the end of the course students will own Mobile APP.			
Prerequisite(s):				
	ogramming and AP CSP or Building Web Apps or per recommendation of Instructor			
	COURSE/DEPARTMENT INFORMATION:			
How many electives doe	es your department currently offer?			
Twenty nine				

How does this course fit into the course offerings?

(Is it a stand alone, is it part of a sequence or is it replacing another course?)

This course is designed to be a capstone course in the CS sequence. Students will have completed Intro Programming, Algorithms, Intro Web, Building Web Apps and AP CSP.

Unit	Essential Questions	Standards	Content
Unit 1 - Building User Interface for Mobile Apps using a supported Integrated Development Environment	How is Mobile APP design different from Web and Desktop Apps.	it down into smaller, more manageable problems that can be solved through engineering.	Students will investigate and use an IDE to develop their first APP project. Students will learn to instantiate and connect to core graphics objects provided by the platforms SDK.
Programming. Connecting asynchronous events to User Interface	interact with programs?	the effects of a design solution on systems and/or the interactions between systems.	Students will build functional APPs which respond to user interaction. Students will debug their APPSs within the simulators supplied in the IDE.
using the Model View	How do the pieces work together to create a complete system?	complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through	Students will incorporate the components developed throughout the semester into a deplyoable, live APP.
Extension to the APP development environment	What are additional capabilities available to use in the APP development ecosystem? Why are there libraries for these additional capabilities?	complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through	Students will extend the capabilities of their projects by including aspects such as networking, database storage, geolocation and metrics.

Who is your target audience?

Any student who has completed Introduction to Web APPs and desires to take further computer science courses.

Has your department discussed the pros and cons of this submission?

Yes - we discussed during February.

What percentage of the department voted "yes" to bring this course forward?

88% of department approved.

RATIONALE:

How does this course contribute to the department's goals and objectives?

The department's general goal is to produce graduates who are informed consumers of science information and who are well prepared to pursue a career in STEM if they choose to do so. This course allows students to develop stronger programming skills, while also helps students develop an interest in how the programs work from a Computer Science point of view.

What is the need this course addresses?

This course addresses the need to satisfy student's desire for additional programming courses through their high school career.

How does this course support the recommendation of the latest K-12 review?

How does this align to your current department accepted standards?

Please see the table above. This course aligns directly with the new state science standards, the NGSS.

How does this course support the Staples Mission Statement?

The Staples High School community inspires learning, fosters integrity, and nurtures empathy.

This course will fulfill all elements of the Staples Mission Statement through real-world and career connections through the study of embedded systems programming. Students will engage in inquiry, explore problems and solutions.

How does this course support the goals of the Westport 2025 initiative?

Creative — Students will be encouraged and indeed taught to ask questions about the way algorithms operate, to attempt to answer those questions, and to look for unexpected results.

Communication

During collaborative learning, students will advocate for their ideas but also work together to come to solve problems and build solutions.

Critical Thinking

Students will be asked to connect their new learning to create a new understanding. They will base decisions on what they need to learn next based on prior knowledge, and they will break down ideas into their most fundamental/mechanistic level.

Global Thinking

Students will always be working on meaningful problems since they will see the coherence between what they are trying to figure out and what they have already learned. Through collaborative learning, they will gain an understanding of the problem through discussion of different points of view.

Establish a flow chart of courses and indicate where this course will fit in.

The sequences for the semester long courses are as follows. Introduction to Programming is a prequisite for the other Introductory courses. Web courses and Embedded courses can be taken in any order.

Advanced courses are identified in *italics*. The prequesites for those courses ar the appropriate Introductory course.

Students may choose to take the courses as introductory and advanced for eash topic. Students may also choose to take each of the introductory courses before choosing advanced options.

	Building Mobile APPs 1 semester	
Applied Algorithmic Design I semester (if approved)	Building Web APPs 1 semester	
Introduction to Programming 1 semester	Introduction to Web Programming 1 semester	Introduction to Embedded Systems 1 semester
Java Programming	Web and Mobile	Embedded

OR:

Java Programming	Embedded	Web and Mobile
Introduction to Programming 1 semester	Introduction to Embedded Systems 1 semester	Introduction to Web Programming 1 semester
Applied Algorithmic Design 1 semester (if approved)		Building Web APPs 1 semester
		Building Mobile APPs 1 semester

Year Long Course:

Advanced Placement Computer Science can be taken any time after Introduction to Programming. It can be taken concurrently with additional computer science courses.

Introduction to Programming 1 Semester	Advanced Placement Computer Science Full Year
--	--

STAPLES EXPECTATIONS FOR STUDENT LEARNING:

Academic Expectations:

Students will be expected to engage in nonfiction reading and writing in this course.

Students will be expected to work across disciplines and use prior knowledge to drive conclusions and solutions.

Students will be expected to collaborate, communuicate, and connect ideas.

Civic Expectations:

Perseverance in spite of difficulties; supporting each other when stuck.

Communicating and Critiquing Conclusions

Taking Informed Action/Advocacy

Social Expectations:

Collaborating to research and solve problems

Work with real-world issues, explore careers in the field

Student Learning Outcomes:

Skills (what students will be able to do):

Analyze and interpret data, particularly when debugging programs and systems.

Use mathematics and computational thinking to design algorithms and models for their systems.

Constructing explanations and designing solutions

Assessment(s):

- Problem Sets Stand-alone Programs, Simulations, and Games
- Performance-based assessments

BUDGET AND FACILITY CONSIDERATIONS:

Staffing Requirements:

Will this create an additional staffing need within the department?

We do not anticipate any impact on staffing
Budget Requirements:
Equipment, materials, textbooks? Please distinguish between a one time only and a yearly expense.
Students will bring their own devices for programming.
Facility Requirements:
Minimum Number of Students Needed to Run this Class: 15
Is there classroom availability within the department for this class? If not, how will this class be accommodated within the school?
We will be drawing from the same student population, so there should be minimal impact on science instructional space.
Are there physical needs or limitations for this course? (water, power, room size, etc.)

Medical Health Insurance FY 18-19 Projections (as of 11/30/18)

	FY 19 Projection
Cash receipts	
General Fund Budget from line 210	15,203,452
Other Fund Contributions	100,000
Employee Contributions (Active)	3,045,340
Flex Spending Accounts	, , <u>, , , , , , , , , , , , , , , , , </u>
Cobra Participants	_
Retirees - Under 65	375,000
State Teachers Retirement (TRB)	115,000
Life Insurance Premiums	25,000
Retirees Medicare Surround	598,619
Other Contributions (FMLA, Retiree Life, etc.)	64,500
Prescription Guarantee Adjustment	· -
Pharmacy Rebate	· •
Total cash receipts	19,526,911
Cash disbursements	
State Partnership Plan 2.0 (10 months)	13,222,576
Medical & Prescription (2 Months Self insured)	2,800,000
IBNR	1,300,000
Dental	1,147,718
Flex Spending Accounts	-
Contribution to HSA	-
Medical Administrative	66,322
Network Access Fee	25,546
Individual Stop-Loss	171,662
Dental Administrative	55,931
FSA Administrative	2,000
Consulting Fee	52,500
PCORI Fee	4,525
Retirees Medicare Surround	913,706
Total cash disbursements	19,762,486
Change in cash balance	(235,575)
Beginning cash balance	1,695,998
FY 19 Pre funded by Town	(1,500,000)
Change in Cash	(235,575)
Net Position(Deficit) end of year-projection	(39,576)

		Medical/Rx (HDHP)		Medical/Rx (SPP)		IBNR		Dental		Flex/Other	
HDHP											
Jul 2018		\$	1,514,635		-		-	\$	99,980	\$	775
Aug 2018		\$	1,611,274		-		-	\$	90,743	\$	190
Sep 2018				\$	1,318,542		979,962	\$	90,285	\$	7,367
Oct 2018				\$	1,338,285		200,148	\$	111,642	\$	8,791
Nov 2018				\$	1,349,207	\$	116,084	\$	72,889	\$	7,760
	Actual	\$	3,125,910	\$	4,006,034	\$	1,296,194	\$	465,539	\$	24,883
	Budget	\$	2,800,000	\$	13,222,576		1,300,000	\$	1,147,718		
	Actual vs. Budget	\$	(325,910)		-		-		-		
	Actual YTD Spend Rate		111.6%		30.3%		99.7%		40.6%		
	Theoretical YTD Spend Rate		100.0%		30.0%		100.0%		41.7%		
	YTD variance %		11.6%		0.3%				-1.1%		
	YTD variance \$			\$	(39,261)			\$	12,677		
	Projected Trend full year			\$	(130,871)			\$	30,424		