

Board of Education Work Session

January 27, 2020 7:00 PM

Board Room, Central Services Building
14801 South 108 Street
Springfield, NE 68059-4925

Agenda

- I. Site Committee Meeting 5:30 PM
- II. Meeting Roll Call
- III. Notice of Open Meetings Act - Posted
- IV. Public Comment
- V. Items for Discussion (Discussion Only)
 - A. Proposed Food Recycling Program- Tim Trumble, Community member
 - B. Platteview High School Curriculum Handbook 2020-21
 - C. Agriculture Education Program
 - D. Project Lead The Way- Potential Programs in Computer Science and Engineering
 - E. Water Test Well at Junior High and High School Campus
- VI. Action Items
 - A. Agreement for Coordinator of Special Events
 - B. Resignation at end of current school year- Kerri Schlange
 - C. Resignation at end of current school year- Michele Tiller
 - D. Approve the Volunteer Separation Program application of Kerri Schlange
 - E. Approve the Volunteer Separation Program application of Michele Tiller
 - F. Resignation at end of current school year- Amber Murphy
 - G. Resignation at end of current school year- Janna Giles
- VII. Future Planning
- VIII. Executive Session- Strategy session to discuss school district boundary price negotiations with respect to Papillion La Vista Community Schools and strategy session to discuss current negotiations with respect to the Springfield Platteview Education Association
- IX. Adjourn

Since my time at Walter Reed Military Medical Hospital, I have been learning about Regenerative Sustainable Agriculture thru Diversity. It is well documented that commercial fertilizers used in conventional agriculture kill off earthworms and damage the soil and environment. An example of this is at my local farm where I dug a trench and found no earthworms.

Proposal: With your approval I will collect the food scraps and other compostable items from the left-overs from school lunches. This will reduce the amount of waste going into the landfill and reduce the amount of methane gas being released from the landfill which we all experience in the cool evenings around Springfield.

- A 6 to 8 foot deep trench in my field has been dug that will be used for composting the waste. I will add earthworms into the trench with the food scraps so the earthworms can eat the scraps and multiply. As the earthworms consume the food scraps they will move thru the soil and create better soil tilth and nutrition for future crops (vermicomposting). Food scraps are consumed and the earthworms will migrate out into the rest of the field, away from the trench.
- In anticipation of your approval I have purchased twenty-four 95 gallon wheeled totes, similar to those used residential trash collection.
- The wheeled totes will be removed from the school on an every other day schedule, replaced with clean totes.
- The 24 totes will distributed as follows, with half of the totes available each day and the other half being dumped and cleaned (can be altered as needed or discussed):
 1. Six totes to both the Springfield and the Westmont Elementary Schools
 2. Four totes to Platteview Central
 3. Eight totes to Platteview High School
- I will assist the school in teaching the children how to sort their food scraps and appropriate compostables into the correct tote.

In order for this to be a long term fix for my field I will have to stop applying commercial fertilizers. As I have learned, the air we breathe is 76% nitrogen. This means that the column of air above an acre of soil has approximately 32K tons of Nitrogen. The solution is to use legumes; like soybeans, clover, black-eyed peas, etc. that can pull the Nitrogen out of the air and fixate it into the soil. I plan on going to a no-till urban farming (vegetables) operation because tillage destroys the michorzal fungi in the soil. The michorzal fungi collect the Nitrogen, Phosphorus, Potassium, and other nutrients from the soil and give these elements to the plant in exchange for a Carbon atom. This is a broad description of the process when we hear people talking about storing Carbon in the soil.

I would also welcome any students that would want to do research on changes in soil conditions. For example, organic matter and infiltration rates, etc. due to the earthworms or changes in cultivation and farming practices, such as not using commercial fertilizers and cover crops. In addition, If there is an interest from the school district, I will be willing to share what I understand on Regenerative Sustainable Agriculture thru Diversity.

Thank you for your time and consideration into this matter before you.

Tim Trumble

Board of Education
Summary of Major Changes for 2020-21 PHS Curriculum Guide
January 27, 2020

Timeline for 2020-21 Scheduling
January 27-February 10 Board of Education Review
February 10 – Board of Education consideration of 2020-21 PHS Curriculum Guide

Summary of Major Changes:

- ELA recommendation to add dual credit course (AP Literature and Composition) for juniors and offer second dual credit courses for future senior level students. (Dr. Kersulov to present)
 - In transition, requirements by grade are listed under each graduation path
 - Will double the number of ELA college credits our students can earn
- Science department recommendation to re-format Science offerings. (Mrs. Ortiz to present)
 - Will allow Science department to cover Earth Science standards
 - All students will still take Chemistry and Physics, just as a semester model with Chemistry 1 and Physics 1 required, but Chemistry 2 and Physics 2 electives for those planning to study relative areas in college
 - Total number of Science credits required for graduation unchanged
 - Will better prepare students for ACT focusing on concepts
 - Allows students choice of Science courses that best fits their path – aligns with Strategic Plan of allowing students flexibility in scheduling
- Updates to 4-year plan and paths if ELA and SCI recommendation are approved
- Recommendation to drop Information Tech as a graduation requirement
 - Standards can (are) being addressed in other curricular areas
 - No longer relative at the HS level as a required course
 - Required graduation credits would remain at 49, students could use this opening to open up their scheduling options
- Addition of two new programs of study tied to Facebook and Google grants
 - Communication and Information Systems offerings and Introduction to Engineering Design (which would mark the beginning of offering Engineering pathways of study)
- Added courses at PHS
 - Cybersecurity (Project Lead the Way)
 - Introduction to Engineering Design (Project Lead the Way)
 - Daktronics Media Production
 - Daktronics Video Production
 - Introduction to Human Services (Dual Credit)
 - Hospitality and Tourism
- Better communicated paths of study offered at PHS – note that there are two path sources (NDE and PHS)
- Cleaned up Online Academy application
- ELA and SCI would like to continue grading policy pilot to afford gathering two years worth of data in this area – some very positive yields are occurring with this pilot

Information for Project Lead the Way and Summary of Information

Summary

Project Lead the Way (PLTW)

Global and local challenges surround us. To address these challenges and move forward, we need people who know problem-solving strategies, think critically and creatively, communicate and collaborate with others, and persevere when something does not work the first time. Project Lead The Way empowers students with these skills – relevant to any career or role they take on – and prepares teachers to engage their students in hands-on learning. Whether designing and producing prosthetics or deploying innovative water filtration devices in developing countries, PLTW students and the teachers who support them are empowered to make a difference in their classrooms, in their communities, and around the world.

<https://www.pltw.org/>

District Perspective

The district is making a recommendation to implement PLTW in multiple programs of study. This will be a way to enhance the STEM coursework at Platteview High School. The district will be adding the following courses; PLTW Engineering and PLTW Cybersecurity. The addition of these courses will be mapped at throughout the 2020-21 school year.

Project Lead The Way has a participation fee model and for every school year there is a participation fee by program. The fee for each course is about \$2200 and we don't have any provisions to be able to prorate this for districts that come on later in the school year.

All equipment and supplies for each class or module can be found at;
<https://www.pltw.org/our-programs/investment-tool>

<u>CTE COURSES</u>	<u>Introduction</u>	<u>Intermediate</u>	<u>Capstone</u>
Engineering (PLTW)	100161 Intro to Engineering Design	Possible Continue Program of Study	Possible Continue Program of Study

	(2020-21)		
IT Operations Management	270501 Info Tech 1 (Currently offer)	270604 Web Design (Currently offer)	270711 Cybersecurity (2020-21)
Computer Science (PLTW)	070710 Computer Science Essentials *(Trained 20-21) (Implementation 21-22)	070708 Computer Science Principles	070709 Computer Science A Depending on Agreement with UNO

Computer Science Essentials that is taught through Project Lead the Way is set up as a year long course and we currently offer it as a semester course. The district would take the 2020-21 school year to learn PLTW and map out the curriculum guide to best meet the needs of our students to progress through these programs of study.

Looking ahead to complete this program of study it is important to point out that Computer Science A is being reviewed with the updated PTLW Course Offerings the district was to ensure that it meets the expectations of agreement with UNO for dual credit offerings. The Courses that we are looking at have been updated for the Fall of 2020. PLTW has a partner of the College Board we have refreshed CSP and CSA to align to the new frameworks and prepare students for both AP Exams. We will continue to communicate with the University of Nebraska-Omaha to see if we will continue to offer this course as a dual credit course for Computer Science and/or transition to PLTW with dual credit offerings.

You can find information about this transition and the updates at this link.

<https://www.pltw.org/fall-2020-release/pltw-computer-science>

Timeline

September 2019	Ongoing Conversation about enhance STEM programs
October 2019	Tour and Question Panel at Abraham Lincoln H.S.
October 2019	Follow Up Conversations of Timeline of Roll Out at PHS
October 2019	Meet with PLTW discuss course objectives and products
November 2019	Meet with Departments to continue conversation about how to enhance programs of study
December 2019	Align with current course offerings
January 2020	Continue to review technology specs to ensure success
January 2020	Make Recommendation to School Board
February 2020	Register for summer teacher training for courses
Spring 2020	Order supplies necessary for roll out of both courses
Summer 2020	Teachers trained through face-to- face, hybrid or online
2020-2021	New Course Offering for Cybersecurity
2020-2021	New Course Offering of Intro to Engineering Design
2020-2021	Teacher trained for Computer Science Essentials
Winter 2021	Review Options for Year 2 of PLTW

Financial Commitment-Year 1

2020-21 Participation Fee

Introduction to Engineering Design	\$3200
Computer Science Essentials	\$2200
<u>Cybersecurity</u>	<u>\$2200</u>
TOTAL	\$7600

Training for 3 Courses for Staff

Introduction to Engineering Design	\$2400
Computer Science Essentials	\$2400
<u>Cybersecurity</u>	<u>\$2400</u>
TOTAL	\$7200

Travel Expenses for Training (Approximate)

Introduction to Engineering Design	\$1500
Computer Science Essentials	\$800
<u>Cybersecurity</u>	<u>\$1500</u>
TOTAL	\$3800

Teacher Time for Training (Approximate)

Introduction to Engineering Design	\$1500
Computer Science Essentials	\$1500
<u>Cybersecurity</u>	<u>\$1500</u>
TOTAL	\$3000

Expenditure List Per Course

Introduction to Engineering Design	\$5400
Computer Science Essentials	\$3835
<u>Cybersecurity</u>	<u>\$1167</u>
TOTAL	\$10402

TOTAL BY COURSE For 2020-21

Introduction to Engineering Design	\$14000
Computer Science Essentials	\$10735
<u>Cybersecurity</u>	<u>\$8767</u>
COMPLETE TOTAL	\$33,502

**Additional costs may be needed to update computer software

Ongoing Cost

Annual Participation Fee moving forward

Introduction to Engineering Design	\$3200
Computer Science Essentials	\$2200
<u>Cybersecurity</u>	<u>\$2200</u>
TOTAL	\$7600

Possible Addition of Computer Science Principles for 2021-22

Participation Fee	\$2200
Training Fee	\$2400
Teacher Time	\$1500
Travel Expenses	\$1500
<u>Expenditure List</u>	<u>\$2325</u>
TOTAL	\$9925



Agreement For Services

Springfield Platteview Community Schools is entering into an agreement with Jodi Kohl as a **Coordinator of Special Events** to include the following services for the district:

- Meet with Director of Public and Community Relations at least once monthly to coordinate special events and fundraising as needed by the Board of Education and Superintendent.
- Coordinate district special events.
- Other activities as needed by the Superintendent and Director of Community and Public Relations.

This agreement is valid from January 1, 2020 to December 31, 2020.

Payment Terms: The district will be billed for 12 months at a rate of \$1,290 per month on the 1st day of each month for a total of \$15,480. Payment for services will be mailed out the day after the Regular Board of Education meeting, which is the 2nd Monday of each month.

All expenses related to travel, cell phone use, etc. are included in the costs of the agreement. Use of a district laptop, copiers, and other equipment/materials related to district events are available through the district.

Signatures below indicates acceptance of the agreement by both parties:

Brett Richards, Superintendent

Jodi Kohl

Date:_____

Date:_____



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Springfield, NE 68059
402-592-1300
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Future Planning

Jan. 27, 2020

2/9-10/20	NASB Legislative Workshop- Lincoln
2/10/20	Regular Board Meeting 7 PM/ 6:30 PM- Finance; Site 6:00 PM
2/20/20	Foundation Work Session 7:30 AM
2/24/20	Board Work Session 7 PM
2/26-27/20	Parent-Teacher Conferences 2-7:30 PM
3/6/20	Foundation Auction 6 PM @Millard Social Hall
3/9/20	Regular Board Meeting 7 PM/ 6:30 PM- Finance; 6 PM Bond Committee
3/16-20/20	Spring Break
3/23/20	Foundation Board Meeting 7:30 AM
3/23/20	Board Work Session 7 PM