

To: Board of Education

From: Patrick Kelly, director, career & technical education, ext. 2405

Re: FY2017 Carl D. Perkins Career & Technical Education Improvement Act Grant

Date: May 19, 2016

Background:

The Carl D. Perkins Career and Technical Education Improvement Act of 2006 was designed to improve and expand services for students enrolled in career and technical education programs. The act defines career and technical education programs as organized educational activities that offer a sequence of progressive courses composed of both academic and technical content. These courses are intended to prepare students for further education and careers in current or emerging employment sectors of high skills, high wage or high demand occupations. The courses include competency-based applied learning that contribute to the academic knowledge, higher-order reasoning and problem solving skills, work attitudes, general employability skills, technical skills and occupation-specific skills of students.

Each eligible secondary school requesting funding from the 2006 Carl D. Perkins Career and Technical Education Improvement Act must submit an application to the Kansas State Department of Education (KSDE). The application describes to KSDE what the district plans to do to improve career and technical education in the district over the next five years, how decisions were arrived upon, and the plan to go about implementing and evaluating the improvements. The initial plan was a five year plan. After 2011, each subsequent year allows for revisions and updates.

This year's allocation for the USD 497 Carl Perkins grant is \$85,118. This is an increase of \$2,734 from last year's allocation.

The USD 497 Carl Perkins Career and Technical Education Act Five Year Plan (and subsequent revisions and updates) was created through a collaborative process. In 2010, there were 125 community members and 15 Career and Technical Education staff members who completed the 2010 USD 497 CTE/Perkins Needs Assessment. Those on-line assessments were followed by meetings with staff (including counselors) at both high schools and with building and district administration. Data from those meetings, as well as requests submitted by teachers, building and district administration were included in developing the FY2012 grant. In 2012, another online needs assessment was completed by staff and the public. The FY2013 was developed based on that needs assessment as well as requests submitted by teacher, building and district administration and improvement plans developed by Career Pathway advisory boards.

In 2013, another needs assessment was conducted. Beginning in 2014 and continuing in subsequent years each pathway advisory committee was required to create a three-year improvement plan with teacher input. Those plans, along with the work of the USD 497 Board of Education, the USD 497 College and Career Center Design and Construction Committee and district administration, provided the input for the FY2017 Carl Perkins grant.

Rationale:

Attached is a summary of the activities that will be supported, based on the input outlined above, through the FY2017 Perkins Grant for USD 497. In addition, there is a copy of the entire Carl D. Perkins Career and Technical Improvement Act Grant including revision to the five year plan.

Recommendation:

Administration recommends board approval for the Carl D. Perkins Career and Technical Education Improvement Act Grant for FY2017 for submission to the Kansas Department of Education.

Motion:

"I move the Board of Education approve the Carl D. Perkins Career and Technical Education Improvement Act Grant for FY2017 for submission to the Kansas Department of Education."

Activity Description	Budgeted through Perkins	Need Identified by:				
		2012 Needs Assessment	Board of Education Goal	FSHS Perkins Teacher Request	LHS Perkins Teacher Request	USD 497 District Administration Request
<b>Required Use 1: Strengthen academic, career and technical skills of students through the integration of academic, career and technical programs.</b>						
<p>In a continuation of Board of Education goals to increase access to Science, Technology, Engineering and Mathematics (STEM) programming the Lawrence Public Schools will use Perkins funds to provide high-quality instruction in STEM through Project Lead the Way (PLTW). PLTW is the nation’s leading provider in STEM programs. The curriculum for grades 8 – 12 includes Design and Modeling and Automation and Robotics for 3 of 4 middle schools, Introduction to Engineering at both high schools and Principles of Engineering and Principles of Biomedicine at the Lawrence College &amp; Career Center. These grant funds will pay the subscription fees for this curriculum that includes software costs.</p>	\$13,000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Required Use 2: Link secondary and post secondary education</b>						
<p>We are pleased to be able to offer concurrent credit for our Auto 1, 2, 3 and 4 classes at Lawrence High School beginning in 2016-17. Students in these classes will be able to earn college credit at no cost for AUTO 125, 129, 131 and 156. In order to make this partnership a reality we need to purchase a on-car brake lathe. The Pro-Cut Brake Lathe also has a certification program that will be attended by our teachers so he can certify our high school students in the use of the equipment.</p>	\$10,900	<input checked="" type="checkbox"/>				

Activity Description	Budgeted through Perkins	Need Identified by:				
		2012 Needs Assessment	Board of Education Goal	FSHS Perkins Teacher Request	LHS Perkins Teacher Request	USD 497 District Administration Request
<b>Required Use 3: Provide programs that address all aspects of an industry</b>						
<p>In 3-year improvement plans developed by teachers and advisory committees, teachers strongly indicated the need to collaborate with business and industry partners to bring real-world experiences into the classroom. This funding would provide curriculum development time for teachers to meet with employers and develop these activities and a small fund for providing a small gift to our guests. Additionally, funds are set aside to provide equipment that will allow students to have work-based experiences within the Advanced Culinary classroom.</p>	\$2,540	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Required Use 4: Develop, improve and expand the use of technology</b>						
<p>Professional Development funds for teachers to implement the new Project Lead the Way (PLTW) program. This high quality programming requires extensive professional development for teachers. Teachers travel to Wichita State University or the University of Kansas Medical Center for training. These funds pay for lodging and a stipend for the work completed in the summer. Some registration fees for the training are paid through a Perkins Reserve Fund competitive grant that was successful in April of 2016.</p>	\$13,458	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Activity Description	Budgeted through Perkins	Need Identified by:				
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<b>Required Use 5: Provide sustainable professional development for teachers, administrators and counselors.</b>						
Professional development funds for teachers, counselors, and administrators to learn about the goals and requirements of the Carl Perkins Act. This will include, but is not limited to, information on career clusters and plan/programs of study, EDGAR/Perkins compliance, understanding Perkins Core Indicators, special populations participation, non-traditional student participation, best practices, and secondary placement. Additionally, two teachers will attend the Think Forward Project Based Learning Conference. Funds pay for registration, travel, lodging and substitutes.	\$3,666	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Required Use 6: Evaluate programs serving all students and assess how special populations are being served.</b>						
Advisory Committees are required to meet twice a year. In these meetings teachers meet with business and industry members to develop 3-year improvement that address goals for pathway courses, curriculum, resources, equipment, facilities and professional development. Pathway data, including enrollment and achievement scores based on race, SES, SPED, gender and other data is reviewed at this meeting. These meetings are typically during the duty day and support is provided through local funding. Pathway improvement plans serve as a needs assessment for USD 497 Career and Technical Education. For 2016-17 we will also use funds to review our Information Technology class offerings and make recommendations for changes.	\$2,646	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>Required Use 7: Initiate, improve, expand and modernize programs, including relevant technology.</b>						
The Lawrence Public Schools will continue to expand the Project Lead the Way (PLTW) offerings by adding Computer Science courses at Lawrence Free State High School and Liberty Memorial Central Middle School. Funds will be used to pay for Android Tablets so students can create mobile apps using MIT App Inventor as part of the PLTW course.	\$15,250	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
We have some programs that will move application level courses to the Lawrence College and Career Center this fall. Our Video Production 2 and 3 course has been renamed and includes KU's Stand and Deliver Course. New cameras are being purchased for this program. Additionally, we are trying out some new technology, a mirrorless camera. Teachers came back from professional development this year and thought it would be good to explore this resource with our students.	\$2,100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
The Lawrence Public Schools will continue to expand the Project Lead the Way (PLTW) offerings by adding Principles of Biomedical Science at the Lawrence College & Career Center. Funds will be used to pay for Vernier Probes and Pipets so students investigate, analyze, and document scientific evidence as part of the PLTW course.	\$4,640	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>Required Use 8: Provide services of sufficient size, scope and quality</b>						
In 2014-15 the Lawrence Public Schools began implementation of ccPathfinder, an online enrollment and planning tool that allows students to develop a 4-year plan and investigate post-secondary opportunities. In 2016-18 the Lawrence Public Schools will use continue to expand the use of this software, not only as enrollment tool, but for developing individual plans of study. These 4-year plans can be adjusted regularly and work seamlessly with our student management system Skyward. Perkins funds will be used to pay the annual subscription fee for this software. There have also been funds budgeted for Professional Development on ccPathfinder.	\$4,574	<input checked="" type="checkbox"/>				

<b>Required Use 9: Provide activities to prepare special population student for high-skills, high wage or high-demand occupations.</b>						
All 8 <sup>th</sup> grade students in USD 497 complete the Career Matchmaker as part of Career Cruising. This online tool allows students to investigate careers and determine what secondary courses and post-secondary study will prepare them for a wide variety of career interests. Students and parents can also investigate college and scholarship options. The use of this program was greatly increased in the middle schools during 2014-15 and started to see more use at the high school in 2015-16. Perkins funds will be used to pay the annual subscription fee for this software.	\$3,870	<input checked="" type="checkbox"/>				

<b>Optional Uses</b>						
Professional Work Experience is a required element for each Career Pathway. This experience can be on-site, off-site, part of a Career and Technical Student Organization (DECA, SkillsUSA, etc) or service learning. Three-year improvement plans, developed by pathway advisory committees, identified the development of professional work experience opportunities as a goal. These funds support Career and Technical Student Organizations Sponsors costs for travel to state and national competitions with students.	\$10,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>