

APPROVE FY 2013 UNIFIED BUDGET REQUEST

Summary

The Kansas Higher Education Coordination Act provides that the Kansas Board of Regents shall "serve as the representative of the public postsecondary educational system before the Governor and the Kansas Legislature." K.S.A. 74-3202 c (b) (2). This provision provides the foundation for an approach to state funding that reflects the recurring theme of maintaining a unified state budget request and a systemwide focus on requesting and advocating for increases in State General Fund appropriations for postsecondary education.

Historically, the Board has approved the unified budget request in June; however, the previous two years requests (FY 2011 and 2012) and again this year (FY 2013), the Board determined that given the significant challenges facing the state budget, the state's economic landscape needed to be monitored over the summer to help inform the Board's judgment about the request. The Board will need to take official action at the September meeting so that the Board's official budget document can be completed and submitted to the Governor and Legislature. Although the statutory deadline for the budget document submission is October 1, the Governor's budget office requests the document be submitted as close as possible to September 15.

The Board held budget discussions over the course of the summer and continued those discussions with institutional leaders and Governor Brownback at its August retreat. This issue paper lays out the Board's August discussion of enhancements and other budget items for the Board's consideration for inclusion in the FY 2013 unified budget request.

The FY 2012 Budget (Current Year)

Total FY 2012 state appropriations from the State General Fund, Economic Development Initiatives Fund, State Water Plan Fund, Kansas Universal Service Fund and Educational Building Fund appropriated to the Kansas Board of Regents and State Universities totaled approximately \$790 million. The FY 2012 appropriations with an overall reduction of about 1 percent from FY 2011 followed on the heels of state budgets in FY 2010 and 2011 that faced precedent-setting drop in state revenues that resulted in over a 12% (\$100 million dollars) base reduction in the amount of state appropriations for the operation of our postsecondary education system compared to the amount originally appropriated for FY 2009.

The state universities, community colleges, technical colleges, Washburn University and the Board Office have taken a range of actions over the last several years to reduce expenditures since the recession hit in mid-FY 2009, including eliminating, laying off or holding vacant positions, eliminating classes, increasing class sizes and reducing course offerings, reducing library resources and hours of operation, reducing operating support for equipment and technology upgrades, reducing student counseling services, eliminating purchases of research and educational equipment, reducing or eliminating student labor budgets, increasing faculty teaching loads, and other actions to reduce spending.

FY 2012 SGF Forecast to Actual

The "consensus revenue estimate" is a tool used by both the Governor and the Legislature to determine State General Fund revenue. The "consensus revenue estimate" is prepared by the Consensus Revenue Estimating Group. This group is composed of representatives of the Division of the Budget, Department of Revenue, Legislative Research Department, and one consulting economist each from the University of Kansas, Kansas State University, and Wichita State University. This group meets each spring and fall. Before December 4th, the group makes its initial estimate for the budget year and revises the estimate for the current year. By April 20th, the fall estimate is reviewed, along with any additional data. A revised estimate is published, which the Legislature may use in adjusting expenditures, if necessary.

As of this writing, SGF revenues are running ahead of the April official consensus revenue estimate for the current year. For fiscal year to date (July and August), the Department of Revenue reports receipts \$874 million, \$40.2 million or 4.8% above estimates of \$833.8 million. That's \$84.1 million or 10.7% above last year's July-August take of \$789.2 million.

Information about the consensus revenue estimates can be found at <http://budget.ks.gov/cre.htm>

The State's Consensus Revenue Estimating Group will issue the first official consensus revenue estimate forecast in mid-November for FY 2013.

Discussion of Requested Supplementals to the Approved FY 2012 Budget

1. Supplemental request from the Educational Building Fund (EBF) of \$1,250,000 to make debt service payment on bonds – this is a technical item that will correct a staff error and appropriate the amount necessary to make the FY 2012 final debt service payment on the Crumbling Classrooms bonds.
2. Supplemental request from the SGF of \$5,462 for dues to the Midwest Higher Education Commission. For FY 2010 and FY 2012, the Legislature did not appropriate the full \$95,000.

Discussion of FY 2013 Unified Budget Request

During the Board's June meeting, staff reviewed the Board's Unified Budget Requests for the past five years and the response to those requests by the Governor and Legislature. Although the annual requests varied in size from \$16 million to \$60 million, typically the requests centered on these categories:

- An inflationary increase for the operating grants tied to the Higher Education Price Index
- Deferred Maintenance part of the capital improvements request
- Student Financial Aid

- Institution(s)-specific requests (i.e. Engineering Initiative at KU, KSU, WSU)

Capital Improvements Request. In May, the Board approved and forwarded its capital improvement requests for FY 2013 that was due July 1. The Board requested the full \$35 million from the EBF for rehabilitation and repair projects at the state universities and \$20 million from ELARF for deferred maintenance. The Board also forwarded requests for authorization to expend special revenue funds related to various capital improvements.

The community and technical colleges have expressed interest in continuing the tax credit program that was enacted by the 2007 Legislature. This would not be included in the budget request, but if approved would be part of the Board's legislative package.

Operating Budget Request. The Board held budget discussions over the course of the summer and continued those discussions with institutional leaders and Governor Brownback at its August retreat. The Governor emphasized the importance of budget enhancements that directly benefit the economy. The Board discussed the importance of aligning its requests with the Governor's interests. Following the retreat, President Tompkins sent communication to institutional leaders requesting their recommendations in light of their needs, feasibility of the request in the current environment, and keeping in mind the Governor's remarks.

Discussions include:

State Funding Enhancements for the System

- Advocate for a system increase equal to the Higher Education Price Index (HEPI). The most recent three year average of HEPI equates to a 2.6 percent increase. Background information about HEPI can be found at <http://www.commonfund.org/CommonfundInstitute/HEPI/Pages/default.aspx>.

The Board would advocate for the new SGF dollars to be appropriated in a lump sum to the Board. Past practice of the Board has been to allocate system SGF increases to the sectors across-the-board, and where appropriate the Board distributes funds to the eligible postsecondary educational institutions in accordance with the various distribution methodologies.

Assuming the Board followed this past practice, the 2.6% HEPI would break out at the sector/item categories as follows:

- HEPI State Universities _____ \$
- HEPI Washburn University _____ \$
- HEPI Non-Tiered Course Credit Hour Grant, Vocational Capital Outlay Grant, Technology Grant HEPI _____ \$
- HEPI Board Office and Programs i.e. Adult Basic Education, Student Financial Aid programs, Board Office operations -- \$ _____

HEPI Request = \$18.9 million state general fund.

- Advocate for new funding to begin to close the gap in the funding of technical education. The 2011 Legislature enacted the Board's proposed new Technical Education Formula, in response to the Legislature's directive to develop a new tiered formula for technical education. The Technical Education Authority and community and technical college leaders recommend the Board include new SGF to jumpstart the change to the new formula.

Tiered Technical Education Formula Request = \$12 million

- Advocate for need-based financial aid through the Kansas Comprehensive Grant program and a redesigned program for students attending high-demand technical programs at two-year colleges.

The Kansas Comprehensive Grant which provides for need-based grants to students attending the four year public and private institutions. Since FY 2009, the KCG has lost ground with the implementation of legislative budget cuts and the loss of federal aid that has been co-mingled with the KCG from the federal Leveraging Educational Assistance Partnership (LEAP) funding. The amount of state and federal funding lost to the program since FY 2009 has been \$1.8 million. The request would be to restore this amount for a total amount of \$15.7 million and bring it back to FY 2009 level.

Objective 2.10 of the Foresight 2020 Plan states that: "by January of 2012, the Board of Regents will develop and submit for legislative consideration a proposal that would authorize new state funding to expand to provide need-based student assistance for two-year, certificate, and part-time students with an initial focus on those students who pursue studies that lead to jobs in high demand areas of the state's economy. After analysis of existing data on critical industries, the workgroup recommends the Board request an enhancement of \$385,925 that would be added to the existing Vocational Education Scholarship program for a total of \$500,000, which will provide need-based grants to approximately 500 students.

Student Financial Aid Request = \$2.2 million state general fund

State Funding Enhancements for Institution-Specific Requests

- KUMC - Medical Student Scholarship Program. The University of Kansas requests authorization to seek additional SGF for the Medical Loan Program in FY 2013. See attached description.

Request = \$1.9 million state general fund.

- ESU -- Workforce Development. To promote Kansas workforce development of direct benefit to the Kansas economy, Emporia State University proposes to initiate and offer three new degree programs: a graduate degree in Nursing Informatics, an undergraduate degree in eCommerce, and an undergraduate degree in Sustainability. Cost \$750,000 SGF. See attached description.

Request -- \$750,000 state general fund (\$250,000 each for Nursing Informatics, e-Commerce, and Sustainability degrees)

- KSU -- Veterinary Medicine. K-State's proposal is to improve the College of Veterinary Medicine. Primary focus will be to expand the research and instructional capacity by adding faculty in the college's areas of focus, by upgrading facilities and by adding resources available to graduate students. See attached description.

Request -- \$5 million recurring state general fund

- FHSU -- Increase Class Size of KAMS. Fort Hays State University would like to increase the class size of the Kansas Academy of Math and Science (KAMS) program by 8 or 15 students. Originally the program was designed at a level of 40 students per class but due to budget constraints within the State at the time of the request the program was downsized to 25. FHSU believes this request supports the governor's plan to improve the economic environment of Kansas by providing a better educated workforce. As KAMS students are some of the best and brightest in the State, giving them an opportunity to accelerate their education and enter the workforce sooner provides support for economic growth. See attached description for the budget projections for the current number of students (25), a new level of 33 and an additional level at 40. FHSU is requesting a SGF enhancement of \$109,500 to support a class size of 33 and \$203,200 to support a class size of 40. Details of each request are included in the attached budget spreadsheet.

Request -- \$109,500 state general fund (class size of 33)
\$203,200 state general fund (class size of 40)

- FHSU -- Information Systems Engineering program. A brief description of the program follows:

Information Systems Engineering is a systematic and interdisciplinary means of approaching and exploiting information in and across physical, mathematical, business, social science, legal and information science disciplines. It is the incorporation of complex information systems involving software, digital storage and retrieval, networks, Human Computer Interaction, Information Security/Information Assurance, digital design, and electronic media. The undergraduate Bachelor of Science degree is designed to prepare entry level engineers who are prepared to work with complex information systems and who have the skills and knowledge to advance steadily in their careers.

The need for the program can best be defined by the following:

The Bureau of Labor Statistics, Occupational Handbook, 2010-2011 Edition, Bureau of Labor Statistics (2010) projects that the second fastest growing category of occupations is "Network Systems and Data Communications Analysts." Job growth in this category is projected to increase 53% between 2008 and 2018. This is projected to be the 2nd fastest growing occupational category in United States over the time period. The median 2008 wages for this category are \$71,100. 155,800 new jobs are projected to be created in this occupation category. Information Systems Engineers are a high value, high skill subset of the category. A closely related occupational category – "Software Engineers, Applications" is projected to have a 34% increase in jobs resulting in an increase of 175,100 new positions with an average salary of \$85,430. This category is projected by the Bureau of Labor Statistics to be the 15th fastest growing occupational category. Both categories require a bachelor degree.

A significant part of the overall engineering program will be the recruitment of students with an interest in this type of educational venture. To support recruitment FHSU is proposing a Summer Academy focusing on two areas, those students who might be interested in participating in the KAMS program and those who are interested in engineering but may not wish to leave their current high school environment. FHSU is seeking State General fund support for the Summer Academy that will enroll 90 students.

- Request: \$750,000 state general fund
 - PSU – Expand undergraduate and graduate programs in polymer science. PSU proposes to establish a set of academic programs and program enhancements that leverage the success, capacity, and expertise present in the Kansas Polymer Research Center. Two academic departments, situated in two

separate colleges of the university (Arts/Sciences and Technology), have envisioned a plan that will produce chemistry and plastics engineering graduates who are uniquely prepared for careers in the critical and growing areas of plastics and polymer chemistry. Undergraduate and graduate programs in polymer science will provide the foundation for expansion of Pittsburg State University's impact in the field of polymers. See attached detailed description.

Request -- \$ _____ State General Fund (working on an estimate. PSU will have on Tuesday)

Other Budget Items for the Board's Consideration

As of this writing, Board staff is aware of the following other budget items for the Board's consideration:

- Change in Budgeting of Insurance Premium from EBF to State University Operating Budgets. The University Business Officers recommended and the Council of Presidents endorsed making a change in budgeting so that all of the EBF funding would be utilized for rehabilitation and repair projects in FY 2013 (\$35 million, an increase of \$20 million) and funds (\$475,000) would not be diverted to a pay a portion of the property insurance premium. More appropriately, the state universities will make the premium payments from their operating budgets.
- Required Debt Service Payments from the State General Fund -- various SGF debt service payments adjust with the debt service schedule and those will be reflected in the budget request document. I need to list the changes.

UNIVERSITY OF KANSAS

1. The University of Kansas requests authorization to seek \$1,866,779 in additional funding for the Medical Loan Program in FY 2013

The Kansas Medical Loan Program is a state program administered by KUMC that provides tuition fees and a monthly stipend for students at the Kansas University School of Medicine. These loans can be repaid by entering a primary care specialty, and then practicing in an underserved county in Kansas for one year for each year of loan support. Failure to satisfy the service commitment requires repaying the loan together with a severe interest penalty (15%).

The program has historically been funded with a combination of State General Fund appropriation and income to the Medical Loan Repayment Fund. Beginning in FY 2004, the State General Fund appropriation to the Medical Center for this program has been made to a separate and distinct fund.

In the 2006 legislative session, a hospital provider assessment was approved. The main purpose of the assessment was to provide additional state match to increase Medicaid rates. The enabling legislation, SB12, directed that not more than 3.2 percent of hospital provider assessment revenues shall be used to fund healthcare access improvement programs in undergraduate, graduate or continuing medical education, including the Medical Student Loan Act. A new fund "Medical Loan Program Provider Assessment" was created to accept the funding from the Healthcare Access Improvement Panel that was established to administer the fund. The Healthcare Access Improvement Panel has approved a disbursement of \$400,000 annually to the Medical Loan Program.

During the 2007 legislative session, changes to the Medical Loan Program were enacted by HB 2185. The legislative changes increased the stipend to \$2,000 per month and authorized the retroactive award of annual loans to students with the same service/repayment obligations. These changes became effective in FY 2008. The retroactive awards have allowed the Medical Loan Program to be fully subscribed at 120 annual loans since that time. The clear indication is that the legislative changes have allowed medical students to make the commitment to primary care in underserved areas of Kansas at a more appropriate time in their education and still fully participate in the program. This change has put more primary care physicians on a direct path of service to rural Kansas.

Over the past decade, income to the Medical Loan Repayment Fund has been decreasing as more and more recipients are repaying their loans by satisfying their service obligation. Ten years ago 350 recipients were in re-payment status. That number has fallen to 28 at the beginning of FY 2012. Based on this number we expect income to the Loan Repayment Fund to be only \$700,000 in FY 2012.

The projected cost of the program in FY 2012 is \$5,686,369. This amount continues the commitment to 83 students in the program, allows for 30 new awards and allows for up to seven new retroactive loans. If any of the 30 awards to first year students are not used, they can also be awarded to second, third, and fourth year medical students. No new State General Fund monies are needed to maintain the program at this level in FY 2012.

However, with the reduction of \$133,864 in SGF support in FY 2010 and \$38,769 in FY 2012, the continued full subscription of the program, and the increasing number of participants who repay their loans through service in rural Kansas thus reducing balances in the Loan Repayment Fund; in FY 2013 the Medical Loan Program will have an estimated \$3,972,421 available while the 120 loan program will require approximately \$5,839,000, a shortfall of \$1,866,779. The Medical Loan Program will no longer be able to support 120 loans per year. This will have a direct impact on the future supply of primary care physicians in underserved areas of Kansas exacerbating current workforce shortfalls as approximately 38 fewer loans will be available.

Emporia State University

Targeted Enhancement Requests

To promote Kansas workforce development of direct benefit to the Kansas economy, Emporia State University proposes to initiate and offer three new degree programs: a graduate degree in Nursing Informatics, an undergraduate degree in eCommerce, and an undergraduate degree in Sustainability.

Nursing Informatics

This master degree in Nursing Informatics will prepare graduates to enter a relatively new nursing specialty. The American Nurses Association defines nursing informatics as a “specialty that integrates nursing science, computer science, and information science to manage and communicate data, information, and knowledge in nursing practice. Nursing informatics facilitates the integration of data, information, and knowledge to support patients, nurses, and other providers in their decision-making in all roles and settings” (ANA, 2008, p. 65). The American Nurses Credentialing Center (ANCC) offers the Informatics Nurse Board Certification Exam for the RN-BC credential.

A nurse with a degree in nursing informatics works in various settings to pair clinical care with current technology, including patient information management systems, administrative computer systems such as scheduling programs or insurance databases, and other systems that are crucial to providing patients with the best possible care. Some nursing informatics specialists work in education, consumer health, insurance, medical software companies, pharmaceutical companies, public health, and nursing research. Specialists in nursing informatics also have opportunities with companies that supply healthcare systems and with healthcare consulting firms.

Nursing informatics specialists are in high demand, and with most hospitals and clinics in the United States moving toward computer-based records, this demand will continue to grow over the next several years. The U.S. Department of Labor estimates a 49 percent job growth in health information and health informatics. Healthcare informatics was named one of the top careers in U.S. News & World Report in 2010.

Emporia State University (ESU) is ideally suited for the degree because of its existing programs (e.g., the School of Library and Information Management; the School of Business, including the department of Accounting and Information Systems; the College of Liberal Arts and Sciences, including the department of Mathematics, Computer Science and Economics; and the Teachers College, including the department of Instructional Design and Technology) that would contribute to the foundation and strength of the master’s program in nursing informatics. A search of programs offering this same degree in Kansas identified only the University of Phoenix (Wichita/online) as an option for students interested in obtaining the degree. This program is projected to contribute an average of 25 to 30 graduates each year to the Kansas work force.

eCommerce

This undergraduate degree will focus on buying and selling of products or services over electronic systems such as the Internet and other computer networks. The Bureau of Labor Statistics (August 30, 2010) described eCommerce as one of the fastest growing occupations in the economy. The Kansas Economic Report identifies occupations in "business and financial operations" in the top six for employment growth over the next six years. The Kansas Occupational Outlook includes "network systems and data communications analysts" as one of five fastest growing occupations for Kansas during the next six years.

Students who graduate from an eCommerce program will promote Kansas through assisting businesses to add a web presence to their existing company, thereby expanding the customer base and creating business growth. eCommerce can assist businesses, regardless of location, to become global while remaining in Kansas. Enterprise Resource Planning (ERP) will also be a critical focus within the curriculum. No other institution in Kansas currently has an ERP emphasis. Many larger companies (including the military) are implementing ERP systems along with web interfaces for their customers.

The proposed degree would be offered by the AACSB accredited School of Business at ESU. Several of the courses required for the e-Commerce degree would be provided by existing faculty in the School of Business, since the degree could not totally be produced from the 3 new faculty members. This program is projected to produce an average of 40 graduates for the Kansas workforce each year.

Sustainability

This multidisciplinary program in sustainability is being designed in collaboration with Flint Hills Technical College. Initial discussions for expanding offerings jointly with other community colleges and technical colleges have also occurred. The aim of the program is to prepare students for new kinds of employment in the rapidly expanding green industries and various fields of work associated with sustainable communities. The 2009 Kansas Economic Report states that "...the impact the green economy and green jobs will have on the labor market is undeniable."

This program will address environmental concerns in Kansas by providing well-trained potential employees, consultants, and advisors for jobs in public and private industries involved in environmental improvement. Students will be trained in a wide variety of theories and hands-on techniques related to sustainable building, alternative energy, green business development, recycling, natural resource management, environmental policy, and environmental law. Graduates of this program will be able to serve as consultants to businesses and non-profits hoping to build energy-efficient buildings, practice environmentally-friendly methods of production and delivery, become energy managers, marketing coordinators, program managers, and green business developers.

Graduates of this program will find jobs in both the public and private sectors. In Kansas, public agencies focused on energy, agriculture, commerce, economic development, small business development, transportation, health and environment, wildlife and parks, and natural resource conservation are likely areas for growth in sustainability. In the private sector, green businesses are growing throughout the U.S. and Kansas economy. Businesses involved in alternative energy, green construction, and hospitality services will also provide potential employment opportunities. Non-profit groups are also interested in energy efficient operations.

Faculties in the sciences and social sciences within the ESU College of Liberal Arts and Sciences have initiated this proposal. This program is projected to add 30 to 40 graduates per year to the Kansas workforce.

Budget Request

ESU is requesting \$250,000 in state general fund for each of the three proposed degrees. Each of the programs is projected to require three additional faculty positions. For purposes of budgeting, we have assumed faculty compensation at the associate professor level (approximately \$65,000 each plus benefits). We are estimating that non-salary costs for equipment and supplies would be financed from the additional tuition (approximately \$125,000 for each degree) generated by enrollment in each of the programs.

Fort Hays State University State General Fund enhancement request #1-

Fort Hays State University would like to increase the class size of the Kansas Academy of Math and Science (KAMS) program by 8 or 15 students. Included here as an attachment is the budget projections for the current number of students (25), a new level of 33 and an additional level at 40. Originally the program was designed at a level of 40 students per class but due to budget constraints within the State at the time of the request the program was downsized to 25.

FHSU is requesting a SGF enhancement of \$109,500 to support a class size of 33 and \$203,200 to support a class size of 40. Details of each request are included in the attached budget spreadsheet.

FHSU believes this request supports the governor's plan to improve the economic environment of Kansas by providing a better educated workforce. As KAMS students are some of the best and brightest in the State, giving them an opportunity to accelerate their education and enter the workforce sooner provides support for economic growth.

Fort Hays State University
 Project: KAMS Budget
 Period: 7/1/11-6/30/12

	25 Students Per Class (50 total)			33 Students Per Class (66 total)			40 Students Per Class (80 total)		
Revenue									
Base State Aid		189,000		249,480			302,400		
State General Fund		496,194		605,688			699,323		
Institutional Funding Streams		0		0			0		
Grants/Gifts		0		0			0		
TOTAL REVENUE			685,194		855,168			1,001,723	
EXPENSES									
A. Personnel	Wages	Fringe	Total	Wages	Fringe	Total	Wages	Fringe	Total
Director	75,222	25,049	100,271	75,222	25,049	100,271	75,222	25,049	100,271
Faculty									
Seasonal	10,000	3,330	13,330	15,000	4,995	19,995	22,000	7,326	29,326
Support Staff									
Assistant Director of Student Services	60,139	20,026	80,165	60,139	20,026	80,165	60,139	20,026	80,165
Financial Administrator	37,954	12,639	50,593	37,954	12,639	50,593	37,954	12,639	50,593
Marketing/Recruiting Specialist	0	0	0	32,000	10,656	42,656	32,000	10,656	42,656
Admin Assistant	26,202	8,725	34,927	26,202	8,725	34,927	26,202	8,725	34,927
PhD Psychologist	0	0	0	0	0	0	0	0	0
Other Student Assistant	15,000	300	15,300	17,000	340	17,340	17,000	340	17,340
TOTAL	224,517	70,069	294,586	263,517	82,430	345,947	270,517	84,761	355,278
EQUIPMENT									
General Office	0			0			0		
Equipment for Classroom	0			0			0		
TOTAL			0			0			0
OTHER OPERATING EXPENSES									
Books	54,000			71,280			86,400		
General Office	10,000			10,000			15,000		
Postage	1,000			1,320			1,600		
Phone	2,880			2,880			2,880		
Software	500			500			1,000		
Classroom Supplies/Software	10,000			12,000			18,000		
Other Travel	4,000			4,000			4,000		
TOTAL			82,380			101,980			128,880
RESIDENTIAL FACILITIES									
Other Capital Improvements	0			4,000			4,000		
TOTAL			0			4,000			4,000
TRANSPORTATION									
Local	1,000			1,320			1,600		
Field Trips & Activities	0						4,000		
Other	0			0			0		
TOTAL			1,000			1,320			5,600
SPECIAL ACTIVITIES									
Guest Speakers	0			0			0		
Other Preview Day	1,363			1,799			2,181		
Other Student Life Supplies	0			0			0		
TOTAL			1,363			1,799			2,181
MARKETING									
Travel	4,000			5,280			6,400		
Printed Materials	6,000			7,920			9,600		
Postage	4,000			5,280			6,400		
Other	8,000			10,560			12,800		
TOTAL			22,000			29,040			35,200
RESTRICTED FEES									
Tablet PCS	30,000			37,500			60,000		
Tuition and Fees	242,865			320,582			388,584		
TOTAL			272,865			358,082			448,584
OTHER									
Evaluation	8,000			10,000			14,000		
Other ADT	3,000			3,000			8,000		
TOTAL			11,000			13,000			22,000
TOTAL EXPENSES			685,194			855,168			1,001,723
NET LOSS/GAIN			0			0			0

\$ 3,780 base state aid per student

Fort Hays State University State General Fund enhancement request #2-

Fort Hays State University seeks State General Fund support for its recently approved Information Systems Engineering program. A brief description of the program follows:

Information Systems Engineering is a systematic and interdisciplinary means of approaching and exploiting information in and across physical, mathematical, business, social science, legal and information science disciplines. It is the incorporation of complex information systems involving software, digital storage and retrieval, networks, Human Computer Interaction, Information Security/Information Assurance, digital design, and electronic media. The undergraduate Bachelor of Science degree is designed to prepare entry level engineers who are prepared to work with complex information systems and who have the skills and knowledge to advance steadily in their careers.

The need for the program can best be defined by the following:

The Bureau of Labor Statistics, Occupational Handbook, 2010-2011 Edition, Bureau of Labor Statistics (2010) projects that the second fastest growing category of occupations is "Network Systems and Data Communications Analysts." Job growth in this category is projected to increase 53% between 2008 and 2018. This is projected to be the 2nd fastest growing occupational category in United States over the time period. The median 2008 wages for this category are \$71,100. 155,800 new jobs are projected to be created in this occupation category. Information Systems Engineers are a high value, high skill subset of the category. A closely related occupational category – "Software Engineers, Applications" is projected to have a 34% increase in jobs resulting in an increase of 175,100 new positions with an average salary of \$85,430. This category is projected by the Bureau of Labor Statistics to be the 15th fastest growing occupational category. Both categories require a bachelor degree.

A significant part of the overall engineering program will be the recruitment of students with an interest in this type of educational venture. To support recruitment FHSU is proposing a Summer Academy focusing on two areas, those students who might be interested in participating in the KAMS program and those who are interested in engineering but may not wish to leave their current high school environment. FHSU is seeking State General fund support for the Summer Academy that will enroll 90 students.

The budget for both programs is attached showing a total request of \$750,000.

Information Networking Engineering Program
Fort Hays State University
Budget Request FY13

Salaries:

Faculty	2	\$	125,000	\$	250,000
Administrative Assistant	1	\$	40,000	\$	40,000
Total Salaries and Benefits				\$	290,000
				\$	25,000
OOE				\$	25,000
Equipment				\$	180,500
Software				\$	25,000
Total Other				\$	230,500
Total Engineering				\$	520,500
Summer Academy Expense					
Faculty				\$	72,000
Tuition	90	\$	750	\$	67,500
Housing	90	\$	1,000	\$	90,000
Total Summer Academy				\$	229,500
Total SGF Request				\$	750,000



Pittsburg State University

OFFICE OF THE PRESIDENT

Pittsburg State University's Polymer Initiative From Education and Research to Production

From its nationally recognized plastics engineering technology program, Pittsburg State University has built a world-class polymer research program that now attracts federal funding, corporate partners, and scientists from throughout the world. Located in the Tyler Research Center since 2007, the Kansas Polymer Research Center (KPRC) provides Kansas with an opportunity to capitalize on key state agricultural resources. As a natural next step, the university proposes to establish a set of academic programs and program enhancements that leverage the success, capacity, and expertise present in the KPRC. Two academic departments, situated in two separate colleges of the university (Arts/Sciences and Technology), have envisioned a plan that will produce chemistry and plastics engineering graduates who are uniquely prepared for careers in the critical and growing areas of plastics and polymer chemistry. Undergraduate and graduate programs in polymer science will provide the foundation for expansion of Pittsburg State University's impact in the field of polymers.

Pittsburg State University's Capacity

The Department of Chemistry is approved by the American Chemistry Society. Currently, the department offers basic foundation science courses in Chemistry and Organic Chemistry and specialty courses in Polymer Chemistry. Graduates of this program are employed in various research areas as well as various professional fields such as pharmacy and chemical engineering following further study.

The Plastics Engineering Technology Program has produced graduates employed by companies such as Rubbermaid, Coleman, and Charloma. These graduates have taken part in the design and manufacture of plastic products for the food, aircraft, automotive, electrical wiring, RV, lawn care, and medical industries.

The Kansas Polymer Research Center (KPRC) at Pittsburg State University is one of the world's leading centers specializing in vegetable oil-based polymer research and development. KPRC scientists work with industrial partners, state and federal agencies, and producer associations on developing and commercializing PSU's intellectual property. Pittsburg State researchers have developed a line of plastics made from soybean oil with application potential in such areas as automotive, construction, home furnishings and agriculture development. As testament to their cutting edge work, these scientists won the 2007 Presidential Green Chemistry Challenge Award for plastics research.

Workforce Implications

Polymer chemistry is vital in fields that develop products such as plastics and synthetic fibers; agricultural chemicals; paints and adhesives; and biomedical applications such as artificial skin, prosthetics, and the nicotine patch that helps smokers overcome their smoking habit. On a web site regarding Polymer Chemistry careers, the American Chemical Society notes that estimates suggest that as many as 50% of all chemists will work in polymer science in some capacity during their careers. Expanded course work and degree programs in polymer chemistry will provide the expertise and skill sets needed in this broad field. Undergraduate and graduate students will receive outstanding educational opportunities in the disciplines of Polymer Chemistry and Plastics. Combined with Plastics Engineering, students with a strong foundation in Polymer Chemistry will be uniquely qualified in areas of product design and manufacturing knowledge, and a materials research experience. A graduate of this program would be prepared to make an immediate impact in a wide range of plastics industry career opportunities.

Given the history and focus of the university in relation to polymer research and related applications, this initiative is a logical next step. This initiative and its resulting capacity have the potential to propel Pittsburg State University to the forefront in the field of Polymer Chemistry and its application in material science as well as other relevant fields. An investment of new FY2013 base funding is requested for this initiative.

September 1, 2011

