

KANSAS BOARD OF REGENTS



Senate Education Committee

Career Technical Education

**Blake Flanders, Ph.D.
February 11, 2013**

★ LEADING HIGHER EDUCATION ★

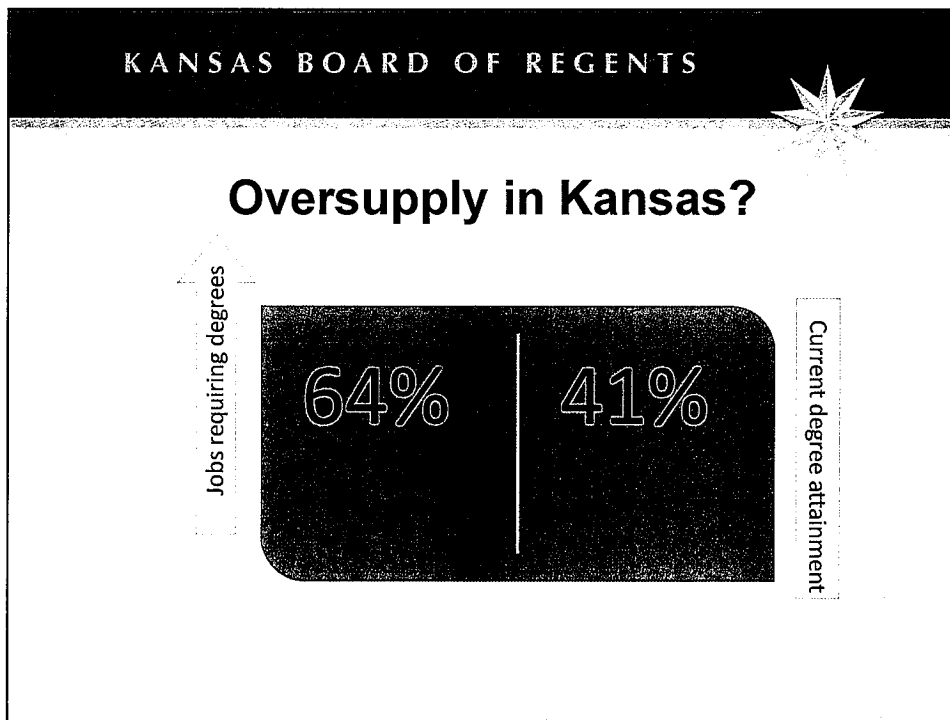
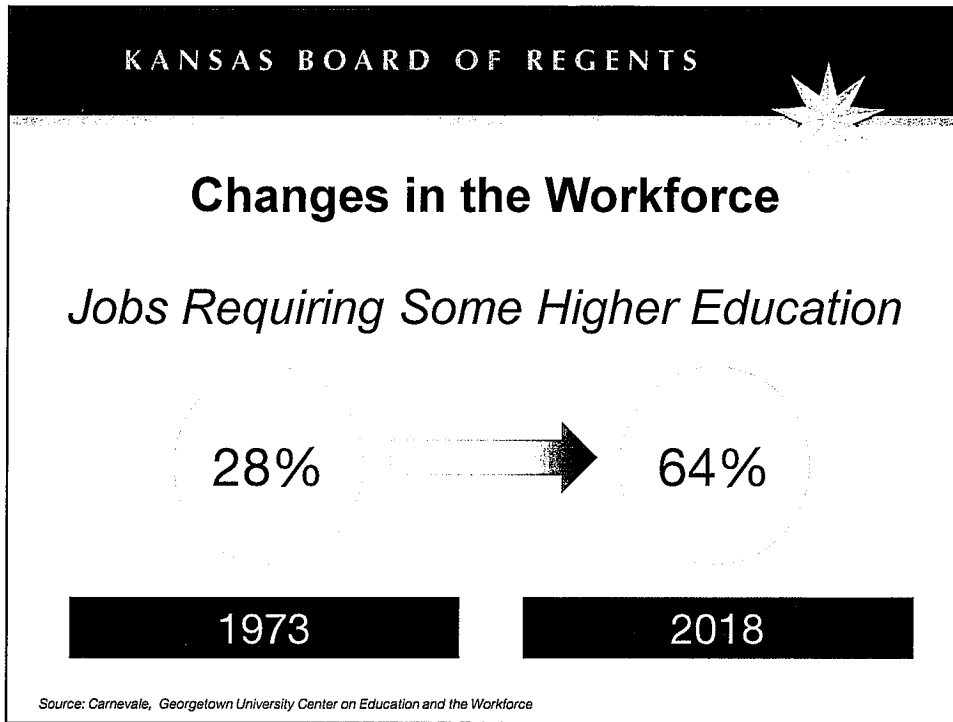
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Higher Skills – National Credentials

- ★ 64% of Kansas jobs will require college education in 2018
- ★ Pace of change – employment demands for higher skills continues to accelerate
- ★ 36,000 jobs remain open* – shortage of technical skills

*2012 Kansas Department of Labor Job Vacancy Survey



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**Careers Requiring 2 Years or Less of
Technical Education**

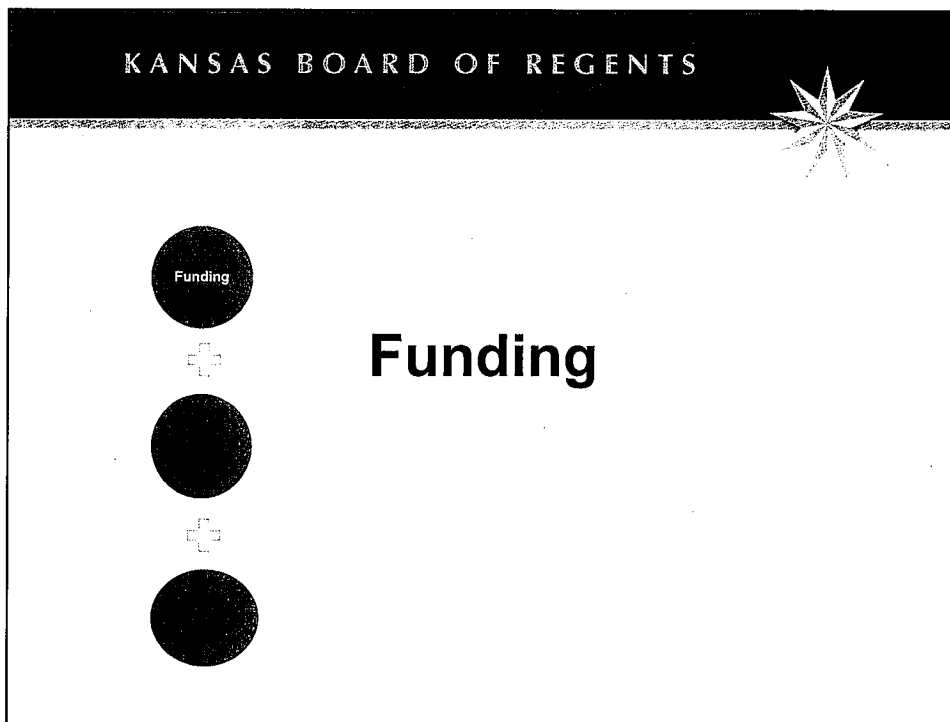
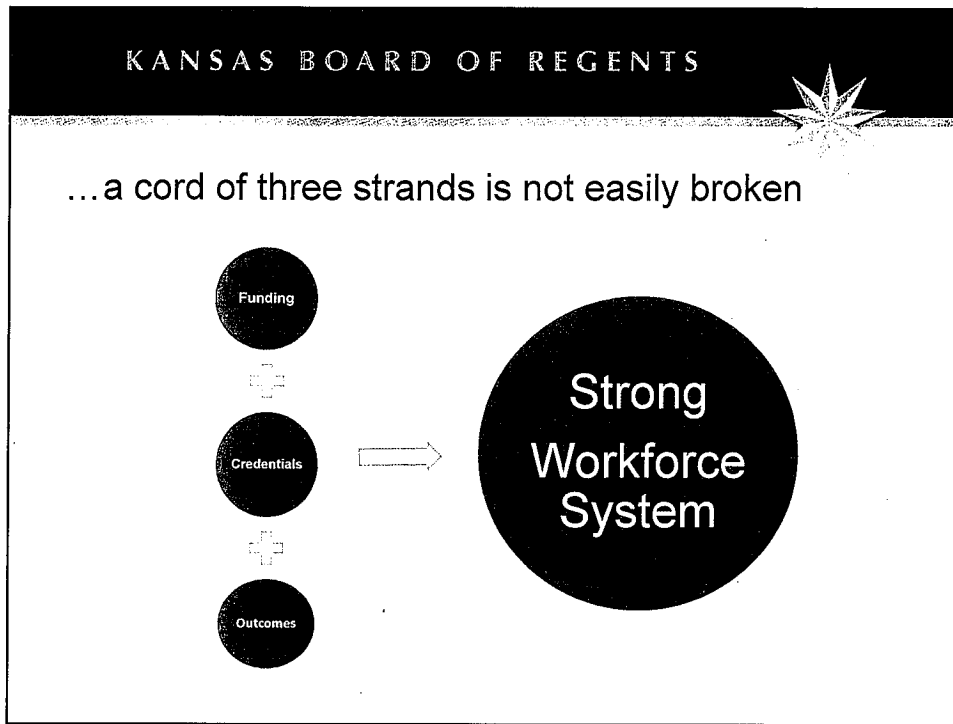
- ★ Registered Nurse - \$55,726
- ★ Licensed Practical Nurse - \$36,601
- ★ Computer Support Specialist - \$41,089
- ★ Radiologic Technologist - \$46,190
- ★ Industrial Machinery Mechanics - \$42,720
- ★ Aircraft Mechanics, Service Technicians - \$49,570

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Careers With Short Term Training

- ★ Certified Nurse Assistant - \$23,030
- ★ Truck Drivers - \$39,040
- ★ Welders - \$34,650
- ★ Petroleum/Gas Pump Operators - \$55,470
- ★ Carpenters - \$40,170



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Tier Rates for Programs

Tier Level	Tier Rate/Credit Hour	Example Program
1	\$105	Medical Assistant
2	\$131	Early Childhood Education
3	\$144	Power Plant Technology
4	\$162	Automotive Technology
5	\$170	Computer Aided Drafting Technology
6	\$223	Associate Degree Nursing

Rates using 2009 Kansas Study Data—Instructor Costs Only

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State Appropriation Line Items

Non-Tiered Education
Supporting non-tiered courses

Tiered Technical Education Fund
Supporting tiered technical education courses

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Program Alignment with Business and Industry...

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The Vision . . .

All of our technical education graduates will be prepared to acquire a 3rd party credential . . .



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Welding Program Alignment - Kansas Board of Regents

Welding Technology Level 1
 • 8 Position qualification credentials (1F, 2F, and 3G (AWS))

→ Level 1 →

Certificate A

Welding Technology Level 2
 • Level 1 Requirements
 • 1 Additional position qualification credential (AWS)
 • Welding proficiency equal to or exceeding AWS standard D1.1 on 3/8" thick carbon steel plate

→ Level 2 →

Certificate B
 or
 Certificate C

Welding Technology Degree
 • Requirements for Level one and two
 • 75 credit hours of General Education (minimum)

→ Degree →

A.A.S.
 Maximum of 64 credits for state funding

Notes

8G Position on P per AWS 3 of 4 (GTAW), SHAW, GAMING, and FCAW on carbon steel. KSAS Section 9 qualifications are national competencies. KSAS colleges are strongly encouraged to pursue these credentials based on regional employer needs and students' career direction.

Courses are encouraged, not required, to offer the following supplemental credentials for AWS: Welding Certificate: Shield Metal and SENSE Level 1 Learning Objectives.

Competencies identified within the 10-12 credit hours of sophomore courses represent opportunities for articulation with K-12.

Colleges desiring to teach additional courses in the A.A.S. of a total of 64 credits will need to identify those courses for 400K.


Common Courses within the Program

General Courses	10-12 credits
Welding	3 credits
GTAW	3 credits
GTAW	3 credits
Welding Safety/OSHA 10 or OSHA 30	3-6 credits

Courses are determined to be an articulation or transfer opportunity by the KSAS Board of Regents. The Board of Regents will determine the final list of courses.

KSAS 04-2011-2042

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Outcomes

Outcome Metrics...



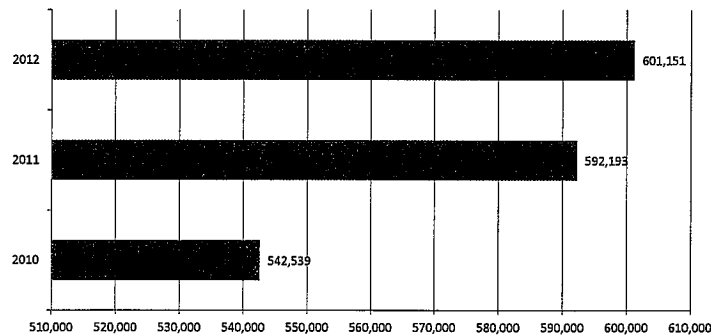
Outcome Metrics

- ★ credentialing of students
- ★ program placement rate
- ★ salaries of graduates



Career Technical Education Enrollment

Tiered Technical Courses
Credit Hour Increase



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Results from Workforce Study

Architecture & Engineering

Selected Occupations	
Chemical engineers	Civil engineers
Electrical, electronics engineers	Industrial engineers
Mechanical engineers	Nuclear engineers
Electrical, electronics engineering technicians	Surveying and mapping technicians
Health and safety engineers	

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Results from Workforce Study

Construction, Production, Installation & Repair

Selected Occupations	
Carpenters	Electricians
Avionics technicians	Automotive Service Technicians
Truck and diesel engine mechanics	Heating, AC, refrigeration technicians
Industrial machinery mechanics	Machinists
Welders, cutters, solderers	Construction equipment operators

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SB 155 Career Technical Education Initiative

- ★ \$8.75M for college tuition
- ★ \$1.5M to high schools for students earning an industry credential
- ★ \$50,000 in marketing to increase student participation
- ★ \$500,000 for transportation

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Tuition Supported College Credit

- ★ Encourages collaborative programs between secondary and postsecondary
- ★ Allows students to accelerate their learning path in an area for which they have a passion
- ★ Students graduate from high school college and career ready

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**High Demand Occupations
Certifications Incentive**

- ★ If a HS graduate earns a certification on the high demand/certifications incentive list while in HS, \$1000 will be awarded to the school district in which the student was enrolled.
- ★ KS Dept. of Labor developed the High Demand occupations list
- ★ KSDE and KBOR worked collaboratively on the certifications
- ★ High Demand/Certification Incentive 2012-2013

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**High Demand Occupations
Certifications Incentive**

- ★ Value-added step for students to become College and Career Ready
- ★ Increases rigor for students in CTE courses
- ★ Documents development of a highly skilled workforce

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Marketing

- ★ New legislation with added resources for technical education
- ★ Collaboration among agencies
 - Board of Regents and Tech Ed Authority
 - Department of Commerce
 - Department of Education

50,000 went with the bill

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PUT YOUR
PASSION
TO WORK

★ LEADING HIGHER EDUCATION ★



Marketing Objectives

- ★ Enhance public opinion of Career Technical Education
- ★ Empower Kansas students to make an informed career decision
- ★ Increase high school enrollment in college technical programs



Pathway to Baccalaureate

Examples of articulation:

- ★ Bachelor in Technology Leadership
 - Business & Industry
 - Career and Technical Teachers
- ★ Bachelor of Applied Science in Technology
 - transfer up to 64 technical college credits

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SB155 CTE

Preliminary data	
Almost 3500	Secondary students enrolled in CTE college courses
30 percent	Health professions
13 percent	Automotive services
12 percent	Manufacturing
10 percent	Computer related

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Results from Workforce Study

Healthcare Practitioners

Selected Occupations	
Pharmacists	Health technologists
Physicians and surgeons	Laboratory technicians
Registered and licensed practical nurses	Occupation, physical and respiratory therapists
Medical records, health information technicians	Physicians assistants
Nurse practitioners	Medical, clinical lab technicians

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Nursing Initiative

Goal:

- ★ increase the capacity of the state higher education system to accommodate up to 250 more nursing students annually

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Nursing Initiative

- ★ Nurse Educator Service Scholarships:
\$200,000
- ★ Nursing Faculty Salaries and Supplies:
\$1,200,000
- ★ Nursing Equipment /Facility Upgrades: \$2,000,000*

* (one-time grant)

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Institutional Grant Recipients

- ★ Nurse Educator Scholarship Grant -
5 public
- ★ Faculty Salary and Supply Grant -
19 public; 4 private
- ★ Equipment and Facility Upgrade Grant -
18 public

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Six Year Results

- ★ 2,612 Additional Nursing Students Admitted
- ★ 435 Additional Faculty –
217 Full-Time; 218 Part-Time
- ★ 135 Scholarships
- ★ 27 Simulators
- ★ **1,576 Additional Nursing Graduates**

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Questions ?

The Kansas Board of Regents shall pursue measurable continuous improvement in the quality and effectiveness of the public postsecondary educational system in Kansas, while expanding participation for all qualified Kansans. To achieve that mission, the Board will demand accountability, focus resources, and advocate powerfully.”

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