Academics and CTE: Overlap
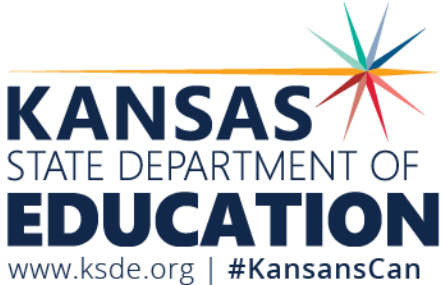
KSDE Presentation 2/6/24

KANSAS
STATE DEPARTMENT OF
EDUCATION
www.ksde.org | #KansansCan

Kansas leads the world in the success of each student.

PACK Act Basics

- HB 2466 (http://www.kslegislature.org/li_2022/b2021_22/measures/documents/hb2466_enrolled.pdf)
- Enrolled 7/1/2022
- CS
  - Requires public high schools to offer CS ("shall offer" not "shall require")
  - $1 million for in-service teacher PD (renewed in budget bill for 2023-24)
  - Scholarships for pre-service teachers
  - Reporting (Grantee to KSDE and KSDE to Governor and Legislature)

Kansas leads the world in the success of each student.

Current PACK Act Activity

- 3 grantees for professional development
  - K-State
  - WSU Tech
  - ESSDACK

- Offering a course that meets the Kansas P12 Computer Science standards is NOT optional
- If a school cannot offer one, they MUST submit a plan to KSDE

Kansas leads the world in the success of each student.

Survey

- 139 responses to CS Course Survey so far
  - Need to get 100% by end of year
  - https://ksde.sjc1.qualtrics.com/jfe/form/SV_38Ev9boEfH0Cp2C
  - http://tinyurl.com/mwa29uf4
  - For Secondary schools operated by districts
  - Q: Do you offer a course that meets or exceeds the KS CS standards?
  - If Y: What is it?
  - If N: Please upload your plan for offering one

Academics vs CTE

- Significant overlap in topics
- Graduation requirements
  - HS Diploma "meaning"
  - Core vs electives
  - Changes
- Measuring academic achievement
  - "Rigor"
- Proving teacher confidence and competence
- Funding
- Advance credit matriculation

Course Topics

- Computer Programming
- CS Applications (NOT the same as Computer Applications)
- CSP
- Cybersecurity
- Web design
- Networking / Internetworking
- Data Science

Academics vs CTE

PACK Act Req.

- Each Secondary School must offer
- No requirement for students to take
- Academic course, teacher licensed at grade level
- Must meet or exceed part of CS Standards

Graduation Req.

- Each Secondary School must offer
- All students must take
- CS MAY count as math or science credit OR advanced STEM
- CTE IT courses must be application level to count for adv STEM

CTE Pathway

- Each Secondary School may offer
- Students take to become completers
- CTE course, teacher CTE licensed
- 4 IT pathways
- Based on local B&I needs

Rigor

Academics - Standards

- KS P-12 CS Standards HS L1

L1.AP.M.01 Create computational artifacts by systematically organizing, manipulating and/or processing data.

How do you assess?

CTE - Competencies

- 31094 CSP Benchmark 2.0

2.1 Create an artifact with a practical, personal, or societal intent.
4 3 2 1 0

How do you assess?

Teacher Qualifications

- Course teacher of record must meet one of two requirements
- Course in CTE pathway: teacher must hold
  - CTE licensure appropriate to course content; or
  - Licensure at grade level plus training according to Licensed Personnel Guide Part 5
- Course not in CTE pathway: academic teacher must hold
  - Licensure at grade level
  - CS endorsement does not currently exist

Course Funding

- CTE: +.5 FTE additional funding (for tech and application level only)

- CTE funding cannot be used on course that is a graduation requirement (additional funding for "special" courses, not additional revenue stream for district generated by all students)

- Course expenses vary per topic and vendor

Kansas leads the world in the success of each student.

Matriculation to Postsecondary

- Academic course
  - Dual credit, based on
    - Specific course
    - Specific teacher's qualifications
    - Specific postsecondary institution
  - AP exam, based on
    - Specific course
    - College Board qualification

- CTE course
  - Dual credit
  - CTE articulation agreement (statewide or local)

Kansas leads the world in the success of each student.

Questions?

???

Kansas leads the world in the success of each student.

Stephen King, PhD PMP
Education Program Consultant
Computer Science
(785) 296-1893
sking@ksde.org

Joyce L. Broils
Senior Administrative Assistant
Career, Standards, & Assessment Services

(785) 296-6770
jbroils@ksde.org