

# Career Technical Education

## **“Pathways” to Success**

*December 2008*



Scott Cole

Director, Career Technical Education



# Overview

- During a **Board Study Session** on December 15<sup>th</sup>, 2008, a proposal to add to existing graduation requirements to require that each student complete one or more “pathways” was presented to the KHSD Board of Trustees. A copy of the **full** PowerPoint presentation can be found by [clicking here](#)
- During the January 5<sup>th</sup>, 2009 **regularly scheduled board meeting**, a condensed version of the “pathway” proposal was presented for informational purposes to give the public an opportunity to provide feedback to the Board prior to the Board taking action on this item during the regularly scheduled February 2<sup>nd</sup>, 2009 board meeting. A copy of this **condensed** presentation can be found by [clicking here](#)
- *A Board Goal Workshop has been schedule for Monday, January 12<sup>th</sup> at 6:00pm and the public is welcome to attend and comment on the proposed plan to change the graduation requirements.*
- The following presentation is a **modified** version of the full and condensed presentations intended to assist readers who do not have prior knowledge on this subject.



At the June 2008 board meeting, The Board of Trustees issued the following directive

- Add to existing graduation requirements to require that each student complete one or more of the following pathways:
  - an approved **college preparatory** course of study, or
  - an approved **career education** pathway that is consistent with the student's interests, needs, and aspirations, or
  - an approved **individual** pathway designed to meet the student's academic and career needs and interests



In addition, the Board of Trustees asked the CTE committee to:

- Identify **facility needs** to fully implement this graduation requirement and solutions to meet these facility needs
- Identify **staffing needs** to fully implement this graduation requirement and solutions to meet these staffing needs
- Identify strategies to free room in student schedules to **maximize access** to pathway courses
- Identify strategies to shift the KHSD culture from a “College Going Culture” to a culture of “**Lifelong Learning**”

# The CTE/Pathways Committee



- A CTE/Pathways Committee comprised of the following individuals was formed to address the Board's directive:
  - Joel Heinrichs, President, KHSD Board of Trustees
  - Dr. Joe Thompson, Associate Superintendent of Instruction
  - Dr. Dennis Scott, Associate Superintendent of Business
    - Dean McGee, Principal – West High School
  - Sandi Banducci, Principal – Regional Occupational Center
    - Fuchsia Ward – Director, Alternative education
    - Scott Cole – Director, Career Technical Education
- Following the Board's directive, the CTE/Pathways committee conducted a feasibility study and developed a proposed "Pathways" plan using:
  - A series of reports generated by the AS400
  - Site visitations – Discussions with the Principal and Assistant Principal at each school site
  - CTE Committee discussions



# The Proposed Plan(s)

- Based on their findings, the Committee proposed two versions of a “Pathway” plan.
- Based on discussions during the December 2008 Board Study Session, the Board recommended the following change to the District Administrative Code, section 303P “Graduation Requirements”

- 303.3 Pathway Requirement

*Beginning with the Class of 2013, all students must complete one of the following pathways to receive a high school diploma:*

- 303.3.1 College Preparatory Pathway 30 credits
- 303.3.1 Career Preparatory Pathway 20 credits
- 303.3.2 Career and College Pathway 30 credits (Beginning with the class of 2015)
- 303.3.3 Individual Pathway 30 credits
- 303.3.4 Individual Pathway 40 credits (Beginning with the class of 2015)



## Changes to Graduation Requirements

- If the board approves the change in the proposed “Pathway Requirement” as recommended in Administrative Code, Section 303P...then:
- The **following nine slides** provide a look at the **new graduation requirements** and accompanying pathway descriptions

# Graduation Requirements

## Beginning with the Class of 2013 (30.20.30 plan)



Subject	College Preparatory	Career Preparatory	Individualized Plan
<b>English</b>	40	40	40
<b>Social Studies:</b> World History, Culture, Geography----- (10) American History and Geography ----- (10) American Government, Civics----- (5) Economics----- (5)	30	30	30
<b>Mathematics</b> All students must pass Algebra or an approved sequence of courses covering the Algebra standard (Ed.Code 51224.5) in grades 7-12	30	30	30
<b>Science</b> Physical Science----- (10) Biological Science----- (10)	20	20	20
<b>Physical Education*</b>	20	20	20
<b>Foreign Language/Fine Arts</b> 10 semester periods in either subject area	10	10	10
<b>Health</b>	5	5	5
<b>Pathway</b> All students will be required to complete coursework within one of the district approved pathways (College Preparatory, Career Preparatory, or Individualized Plan). Please see your counselor for additional information.	30 Complete (3) year long courses within the e –g subject areas to fulfill the (15) year long high school courses: A-G requirement.	20 Complete (4) semester long courses (6 recommended) within one of the career pathways available at your school.	30 With the approval of the principal or designee, students will complete a pathway consisting of (6) semester long courses designed to allow the student to meet a specific educational plan.
<b>Electives</b> No more than twenty (20) units may be in “service courses”. These units are limited to the junior and senior years, without prior approval of the principal’s designee; and are limited to ten (10) units per year, without prior approval of the principal’s designee.	35	45	35
<b>Total to Graduate</b>	<b>220</b>	<b>220</b>	<b>220</b>

# Graduation Requirements

## Beginning with the Class of 2015 (30.30.40 plan)



Subject	College Preparatory	Career Preparatory	Individualized Plan
<b>English</b>	40	40	40
<b>Social Studies:</b> World History, Culture, Geography----- (10) American History and Geography ----- (10) American Government, Civics----- (5) Economics----- (5)	30	30	30
<b>Mathematics</b> All students must pass Algebra or an approved sequence of courses covering the Algebra standard (Ed.Code 51224.5) in grades 7-12	30	30	30
<b>Science</b> Physical Science----- (10) Biological Science----- (10)	20	20	20
<b>Physical Education*</b>	20	20	20
<b>Foreign Language/Fine Arts</b> 10 semester periods in either subject area	10	10	10
<b>Health</b>	5	5	5
<b>Pathway</b> All students will be required to complete coursework within one of the district approved pathways (College Preparatory, Career Preparatory, or Individualized Plan). Please see your counselor for additional information.	30 Complete (3) year long courses within the e –g subject areas to fulfill the (15) year long high school courses: A-G requirement.	30 Complete (6) semester long courses within one of the Career pathways available at your school.	40 With the approval of the principal or designee, students shall complete a pathway consisting of (8) semester long courses designed to allow the student to meet a specific educational plan.
<b>Electives</b> No more than twenty (20) units may be in “service courses”. These units are limited to the junior and senior years, without prior approval of the principal’s designee; and are limited to ten (10) units per year, without prior approval of the principal’s designee.	35	35	25
<b>Total to Graduate</b>	<b>220</b>	<b>220</b>	<b>220</b>



# College Preparatory Pathway

- Complete (3) **year long** courses within the e-g subject areas to fulfill the (15) year long high school courses A-G requirement
  - College prep students currently complete 12 of the 15 year long course requirements to graduate
  - College Preparatory pathway students would be required to complete (3) **additional courses** to complete the A-G requirements (*\* Most take significantly more*)
    - e) (2) years “Language Other than English” required
    - f) (1) year “Visual and Performing Arts” required
    - g) (1) year “College-Preparatory Electives” required



# Career Education Pathway

- Complete (4) semester long courses (6 semesters recommended) within one of the career pathways available at your school
  - semester requirement vs. year long requirement
  - **Pathways**

Agriculture and Natural Resources	Health Science and Medical Technology
Arts, Media, and Entertainment	Hospitality, Tourism, and Recreation
Building Trades and Construction	Information Technology
Education, Child Development, and Family	Manufacturing and Product Development
Energy and Utilities	Marketing, Sales, and Service
Engineering and Design	Public Services
Fashion and Interior Design	Transportation
Finance and Business	

# Example of a CDE defined Pathway

## *Arts, Media, and Entertainment*



- In a 2004 national study, almost 550,000 businesses were employing almost three million people in this industry
  - **Media and Design Arts**
    - Examples include digital animation, print design, photography, and cinematography
  - **Performing Arts**
    - Focuses on the direct creation of art and entertainment by individual artists and include professional applications of theater, dance, and music
  - **Production and Managerial Arts**
    - Focuses on developing the organizational and managerial knowledge and skills needed to bring arts, media and entertainment to the public

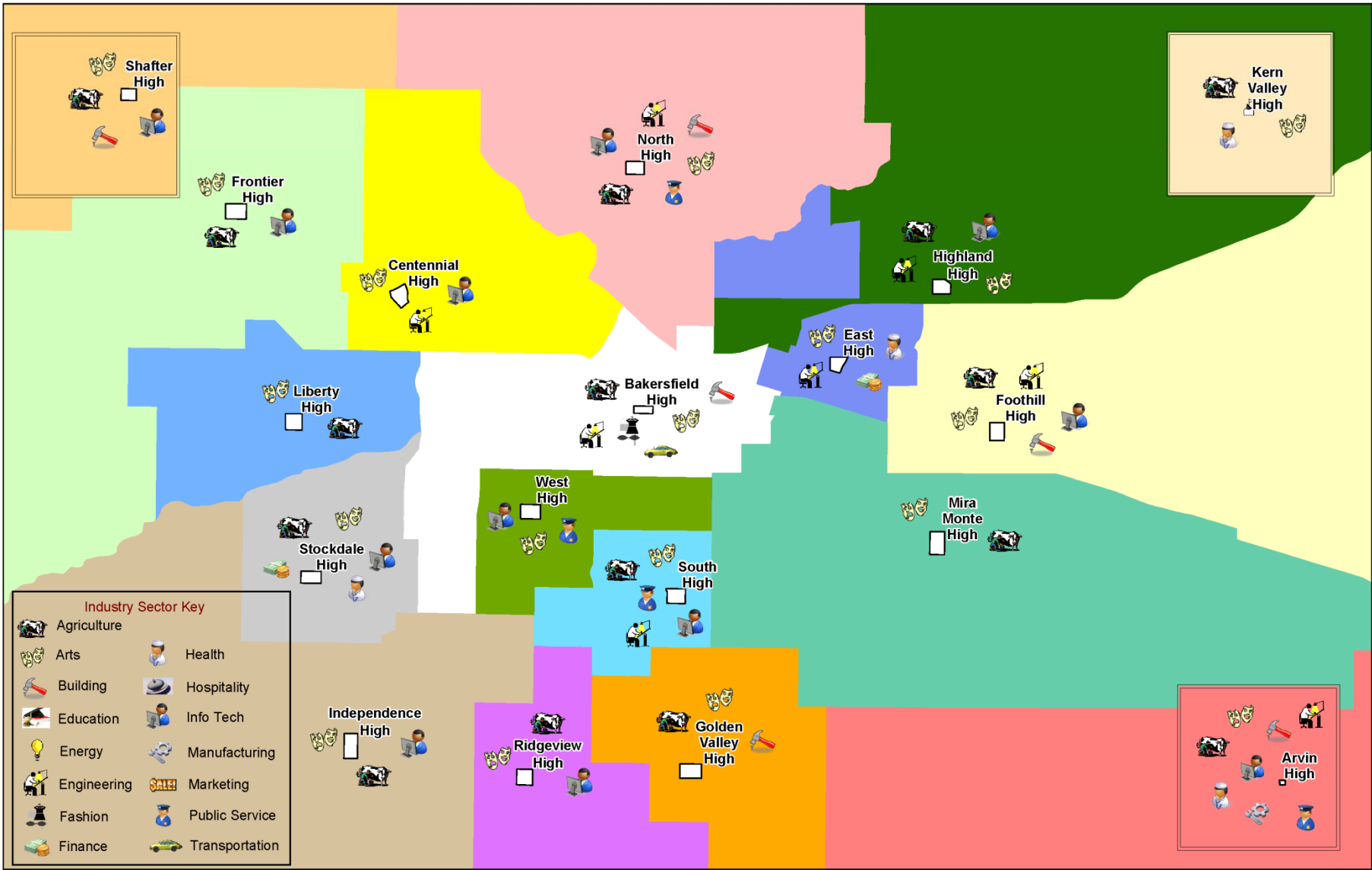


Currently, KHSD schools offer three or more classes in the following **Career Pathways**

	Ag	Arts	Bldg	Ed	E&U	Eng	Fash	Fin	Med	Hosp	IT	Man	Mark	PS	Tran	(3)	(2)
Arvin	★	★	★			★			★		★	★		★	2	8	9
Bakersfield	★	★	★			★	★					2			★	6	7
Centennial		★	2			★					★					3	4
East		★				★		★	★							4	4
Foothill	★	★	★			★					★					5	5
Frontier	★	★									★					3	3
Golden Valley	★	★	★								2					3	4
Highland	★	★				★					★					4	4
Independence	★	★									★					3	3
Kern Valley	★	★							★	2	2					3	5
Liberty	★	★														2	2
Mira Monte	★	★	2													2	3
North	★	★	★	2		★					★			★		6	7
Ridgeview	★	★						2			★			2		3	5
Shafter	★	★	★								★					4	4
South	★	★				★					★			★		5	5
Stockdale	★	★						★	★		★					5	5
West		★									★			★		3	3
ROC	★		★	★			★	★	★		★	★	★	★	★		
Central Valley											★						
Nueva											★						
Summit																	
Vista																	
Vista West											★			★			
Workforce											★						
Schools with (2)	15	18	8	1	0	7	1	3	4	1	14	3	0	5	2		82
Schools with (3)	15	18	6	0	0	7	1	1	4	0	12	1	0	4	1	72	



# CTE Pathways by School Site



# Career Pathway – School Example



Arvin High School  
Career Pathways



Arvin High School offers CTE courses in the following pathways. Please contact your counselor for more information about the classes and prerequisites for enrollment.

Agriculture and Natural Resources
Agriculture 1
Agriculture 2
Agriculture 3
Ag Mechanics/ Beginning
Ag Mechanics/ Advanced

Arts, Media, and Entertainment
Beginning Band
Advanced Band
Beg Instrumental
Bass Choir 1
Treble Chorus
Advanced Chamber Choir
Advanced Mixed Choir
Drama 1
Drama 2
Drama Performance
Drama Production
Beginning Art
Intermediate Art
Advanced Art
Studio Art (AP)
Photo Journalism
Yearbook/Publications
Photography
Video Production
Video Production 2
Video Production 3

Building and Environmental Design
Wood 1
Wood 2
Wood 3

Engineering and Design
Pre-Engineering Drawing
Architectural Design
Architectural Design 2

Health Science and Medical Technology
Health Careers
Medicine
Human Ecology

Information Technology
Computer Literacy
Computer Applications 2
Computer Applications 3

Manufacturing
Welding 1
Welding 2
Manufacturing

Public Service
ROTC 1 / Leadership 1
ROTC 2 / Leadership 2
ROTC 3 / Leadership 3
ROTC 4 / Leadership 4

Transportation
Auto Tech 1
Auto Tech 4

# Individual Pathway



- With the approval of the principal or designee, students will complete a pathway consisting of (6) semester long courses designed to allow the student to meet a specific educational plan.
  - Examples of students choosing this Pathway
    - Special education students
    - Students opting out of the College Preparatory pathway their senior year
    - Students choosing to complete CTE classes from a variety of career pathways
    - Remediation student focusing on literacy and numeracy classes to pass the CAHSEE and graduate
    - Students transferring into the district in their senior year and are unable to meet the career pathway requirement
    - Continuation school students



# Culture Shift – “Lifelong Learning”

- As part of the implementation plan, the district envisions working with school counselors and data processing to supplement the existing programs as outlined on **this and the next slide**.
- **Developing an academic/career plan**
  - Tie into SB813 – the four year plan (Spring)
  - Potentially expanding to a six year plan
  - Annual follow-up with each student

## Transcript Sample

\*\*\* UNOFFICIAL \*\*\*

FALL	SPRING	CAHSEE: PASSED?	ENROLLMENT HISTORY
		MATH ..... Y	8/22/2005 31 ENROLLED
		ELA ..... Y	8/21/2006 31 ENROLLED
		ALGEBRA .... Y	8/20/2007 31 ENROLLED
		PATHWAY ....	8/18/2008 31 ENROLLED



# Culture Shift – “Lifelong Learning”

- Develop Pathway Literature
  - Pathway posters and brochures at each site
  - Parent letters and parent handbooks

## Health Career Pathway

Would you like to help people when they are sick? Are you interested in studying diseases? Could you be able to help others lead healthy lives? You may like careers in the Health Careers Pathway!

High School Diploma	1 – 2 Years of College	4 Years or more of College
Admitting Clerk Ambulance Driver Certified Nursing Assistant Dental Assistant Home Health Aide Laboratory Assistant	Acupressurist Dental Hygienist Vocational Nurse Medical Office Secretary Radiological Technician Respiratory Care Practitioner	Family Practitioner Hospital Administrator Optometrist Physical Therapist Physicians Assistant Podiatrist

- Develop Interest Inventories to Assist Students & Counselors
  - Possibilities include UNIACT (ACT), Princeton Review, and MyPlan

# Pathways – Implementation Plan\*

\* *Contingent on Board Approval*



- December 2008 – Study Session Presentation
- January 2009 – Board Action on Pathway Plan
- February and March 2009
  - Presentation of Pathway plan to Principals and APs
  - If changes in graduation requirements are adopted (**for class of 2013**) they will need to be sent out to school sites for inclusion in the parent handbook
  - Work with Data Processing on AS400 and transcript changes necessary to accommodate Pathway plan
  - Prepare pathway literature (posters, brochures, etc..) for students and parents
- March and April 2009
  - Work on developing guidance plans (or) changes to current guidance plans
  - Conduct staff development sessions with counselors
  - Creation of CTE/Pathways website with pathways and pathway information
- April and May 2009
  - Distribute materials to parents and students at Freshman Orientation and Freshman Registration



# Pathways – Implementation Plan\*

\* *Contingent on Board Approval*



- June and July 2009
  - Parent Letters home from school site administrators
- August 2009
  - Materials prepared and sent to school sites for Back-to-School meetings
  - Follow-up staff development sessions with counselors
- October or November 2009
  - Possible 2<sup>nd</sup> annual “Industry Night” to build a pool of potential CTE teacher candidates
- December 2009
  - Follow-up Pathway presentation to board on status of Pathway plan
- February and March 2010
  - Update Pathway literature based on schedule changes (and/or) expansion
  - Update CTE/Pathways web site
- March and April 2010
  - Distribution of new materials for Freshman Orientation and Registration



# Questions?



- Contact:

Scott Cole

Director. Career Technical Education

Kern High School District

5801 Sundale Avenue

Bakersfield, CA 93309

(661)827-3178

[scott\\_cole@khsd.k12.ca.us](mailto:scott_cole@khsd.k12.ca.us)