MAKING A DIFFERENCE WITH VIRTUAL CTE

MARE / K-8 Conference

Lodge of the Four Seasons

October 21, 2016

Topics

- An Introduction to K12

- The Importance of CTE

- The Challenge for Small Districts

- An Innovative Solution

- Summer CTE Program

- District Partner Program

- Contact Information

The largest provider of online learning programs for pre-K through high school

‣ Operates virtual school programs in 33 states + D.C. covering ~80% of students in U.S.

‣ Over 100K students attend K^{12} managed programs across 70+ schools; 1M+ courses taught per year

‣ Institutional group, FuelEd, partners with more than 2,000 school districts in all 50 states and the District of Columbia

‣ Provide jobs and training for 7,000+ educators across the nation

Chuck Wolfe currently serves as Vice President of School Development for K12. In this role, he works with state agencies, school districts and charter schools to develop online learning solutions with an emphasis on Career Technical Education programs. He previously served as Executive Director for Insight School of Colorado and was part of the leadership team that launched the Insight School of Kansas. Before joining K12, he worked as a teacher, attorney, and university administrator. Chuck earned a B.S.Ed. From the University of Missouri-Columbia and a J.D. from the UMKC School of Law.

The Importance of CTE

Today, a wide variety of recent and sustained trends are driving the importance of a career readiness offering.

ECONOMIC

- ☑ **Higher youth unemployment,** including decline of jobs fit for those with only HS degree

- ☑ **Growth of "middle jobs"** (requires training above HS diploma but below Bachelor's degree)

- ☑ **Skills gap between High School preparedness and needs of today's 21st century labor market**

POLICY

- ☑ **Increasing state support,** along with sustained federal government support

- ☑ **Proliferation of CTE advocacy initiatives**

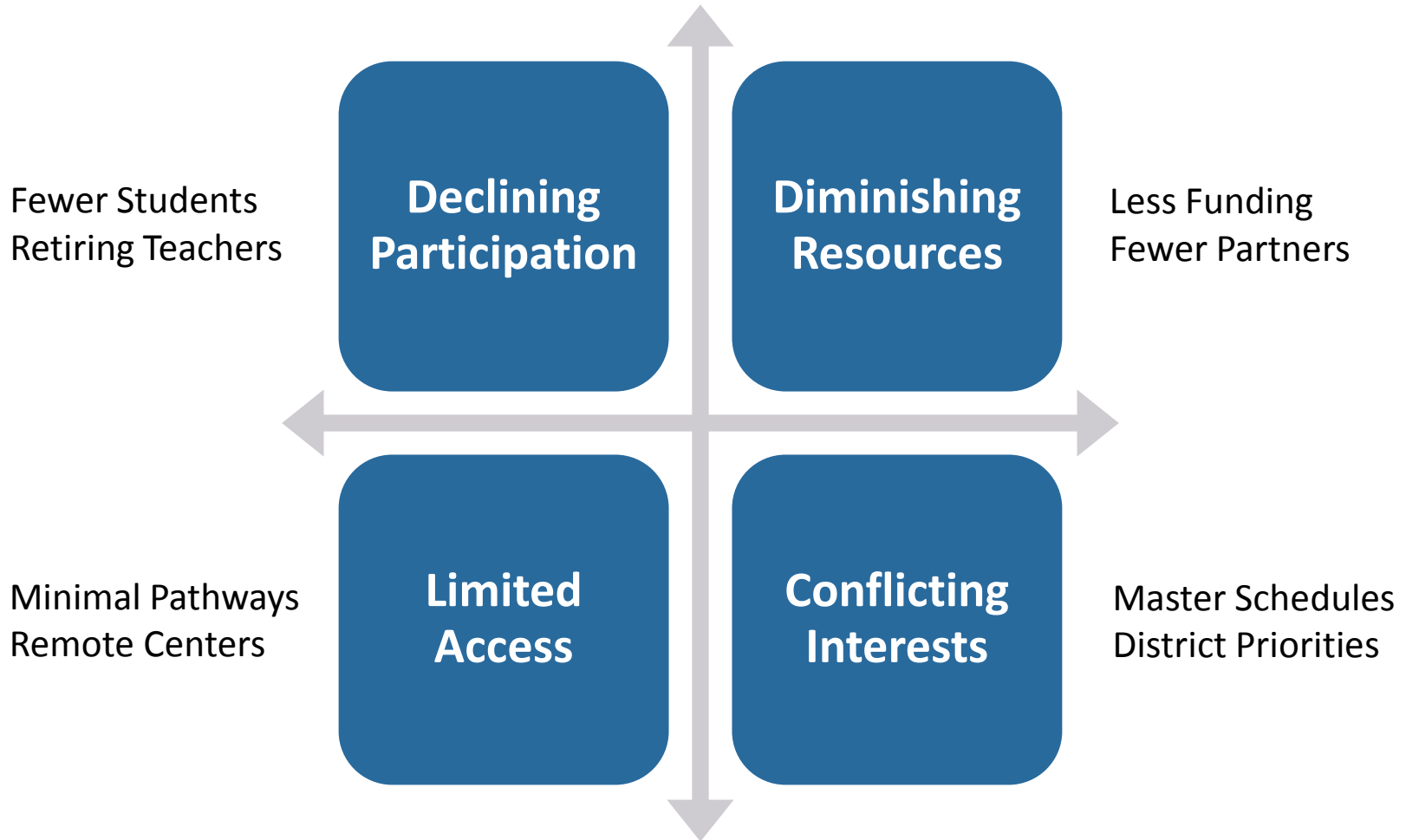- ☑ **Some employers willing to invest in future workforce** (i.e. funding, internships, etc.)

EDUCATION

- ☑ **Still-unsolved U.S. high school graduation rate**

- ☑ **Crisis in college expense**

- ☑ **Acceptance and use of online education**

The Challenge for Small Districts

Small districts wanting to build or expand CTE offerings face several challenges and limitations created by the traditional school model

Fewer Students
Retiring Teachers

Declining Participation

Diminishing Resources

Less Funding
Fewer Partners

Minimal Pathways
Remote Centers

Limited Access

Conflicting Interests

Master Schedules
District Priorities

An Innovative Solution

K^{12} has developed an online CTE program for middle and high school students that can be implemented in various educational formats and learning environments

High School Diploma +

Industry Credentials, National Certifications, and College Credit

Unique Partnerships

Student Organizations, National Businesses, Trade Unions

DESTINATIONS
Career Academy
POWERED BY K12

Real World Experience

Internships, Apprenticeships, and Project Based Learning

Exploration/Guidance

Interest Evaluations, Employment Counseling, Job Preparation

Integrated CTE Program

Courses

- Exclusive to the Destinations program
- Sequence of courses providing depth
- Designed to pass industry certification exams

CTSOs

- Career Technical Services Organizations
- SkillsUSA (baseline)
- Bring students with common career interests together
- Learn high-demand "workplace skills"

College & Career platform

- Inventory interests, strengths and weaknesses
- Research career possibilities
- Work toward being ready for a career and/or college upon graduation.

Test Prep

- Embedded in many courses
- Prepare students to pass certification exams

CTE Staff

- Teachers, administrators,
- Trained in CTE
- Provide more than a casual introduction to career education

Work Readiness

- Gain practical on-the-job training
- Internships
- May include DCA-exclusive opportunities
- Industry Certifications

Initial Clusters and Pathways

Health Sciences	Advanced Manufacturing	Business Management	Information Technology	Construction
Nursing Assistant	Manufacturing Production	General Management	Web and Digital Communications	Heavy Equipment Operation
Medical Assistant	Production Process Development	Business Finance	Programming and Software Development	Agriculture
Pharmacy Technician	Health, Safety & Environmental	Administrative Support	Information Support and Services	Hospitality and Tourism

Sample Course Sequence

Actual courses may vary depending on pathway

Cluster	First Year**	Second Year**	Third Year**	Fourth Year**
Health Sciences	Business and Healthcare Explorations	Health Sciences II Medical Terminology	Anatomy and Physiology A Anatomy and Physiology B	Credentialing Experience * / Advanced Electives Credentialing Experience * / Advanced Electives
Business, Mgmt. & Admin.	Business and Healthcare Explorations	Entrepreneurship 1 Marketing 1	Accounting 1 Marketing 2	Entrepreneurship 2 Accounting 2 Credentialing Experience * / Advanced Electives
Manufacturing	IT and Manufacturing Explorations	Simple Machines and Robotics Fundamentals of Milling and Pneumatics	Robotics and CNC Programming Rapid Prototyping and Electrical Systems	Advanced Manufacturing Topics I (Advanced Manufacturing Topics II Credentialing Experience * / Advanced Electives
Information Technology	IT and Manufacturing Explorations	Fundamentals of Design Elements of Design	Digital Imaging* Web Design*	Digital Illustration* Branding and Advertising* Credentialing Experience * / Advanced Electives
Agriculture	Intro to Agriscience	TBD For Year 2 (School Year 2017-18)		
Hospitality & Tourism	Intro to Hospitality and Tourism			

* Student prepared for credential exam after this course/experience
** "xxxx YEAR" is meant to show course sequencing – in most cases student may accelerate progress through pathway

More than 25 Certifications

Cluster	Pathways and Certification(s)			Other
Health Sciences	**Therapeutic Services – Nursing Program** (AMCA) – Nursing Assistant Certification – NAC; Certified Nursing Assistant – CNA			ACT NCRC / Work Keys
	Therapeutic Services – Pharmacy Technician Program Pharmacy Technician Certification Exam (PTCE)			
	Therapeutic Services – Medical Assistant Program NOCTI – Medical Assisting; AMCA Clinical Medical Assistant Certification (CMAC)			
Business, Mgmt. & Admin.	**General Management** • NOCTI – General Management • A*S*K Entrepreneurship / Management • MS Office Cert	**Business Finance** • NOCTI – Financial and Managerial Accounting • A*S*K Finance • MS Office Cert	**Admin Support** • NOCTI – Business Information Processing • A*S*K Fundamental Business Concepts • MS Office Cert	
Information Technology	**Web & Digital Communications** • ACA: Visual Communication Using Adobe Photoshop • ACA: Web Authoring Using Adobe Dreamweaver + 2 others	**Programming & Software Development** • NOCTI – Computer Prog. • Language certifications: JavaScript, Java, Python, etc.	**Information Support and Services** • NOCTI – Information Support and Services • CompTIA IT Fundamentals	
Manufacturing	**Production** • NOCTI – Precision Machining • NIMS CNC Machine Operator	**Manufacturing, Production Process Development** • NOCTI – Manufacturing Tech • MSSC Certified Production Technician (CPT)	**Health, Safety and Environmental** • MSSC Certified Production Tech (CPT) – Safety Module	
Agriculture	**In development – exploratory courses in place Year 1**			
Hospitality & Tourism				

Certification Combinations Available
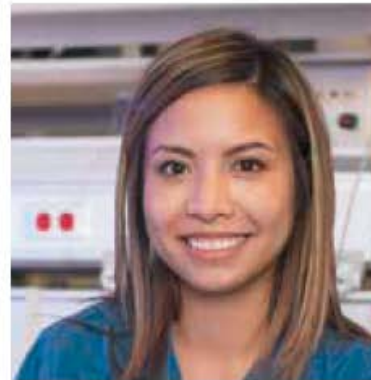
Sample Certification Combinations

Eliza
Business
- High School Diploma
- NOCTI Financial and Managerial Accounting Certification

Robert
Manufacturing
- High School Diploma
- NIMS Precision Machining Certification
- NCRC

Melinda
Health Science
- High School Diploma
- Certified Medical Assistant
- Microsoft Office Certification
- NCRC

Sam
Information Technology
- High School Diploma
- NOCTI Information Support Services Certification
- A+ and Network+ Certifications
- Microsoft Office Certification
- NCRC

LMS Layout

Course Layout

Chapter Layout

Lesson Format

Anatomy of a Typical Cell animation

Watch the animation to learn about the cell, the basic unit of all organisms.

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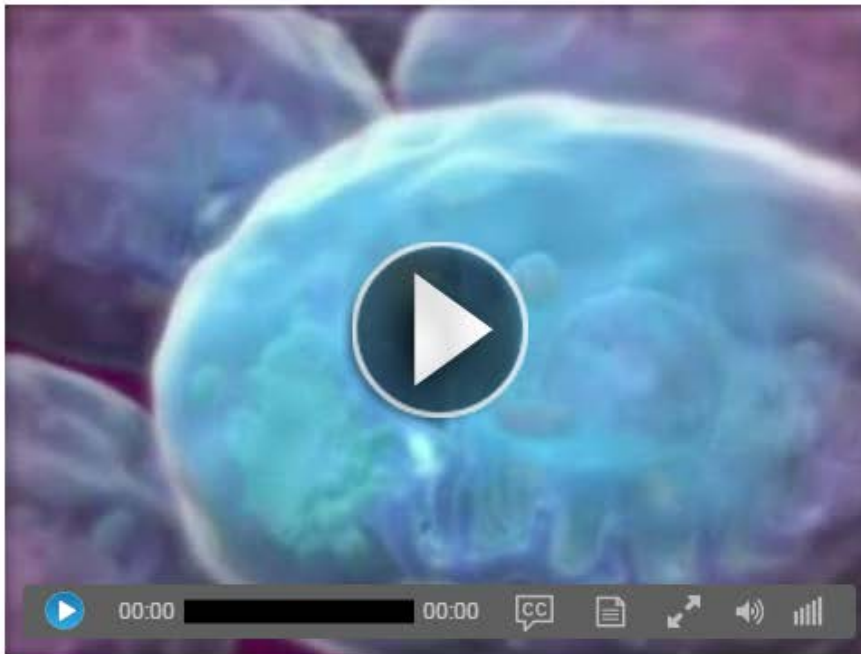
© Cengage Learning

Cells are composed of **protoplasm** (pro-toh-**PLAZM**), an aqueous solution of

Summer CTE Program

Grandview R-2 School District and K[12] will partner to create the Missouri Online Summer Institute. As part of MOSI, we will offer a CTE program that allows students to complete a pathway over the course of 3-4 years and pursue industry certification.

M i s s o u r i
O n l i n e
S u m m e r
I n s t i t u t e
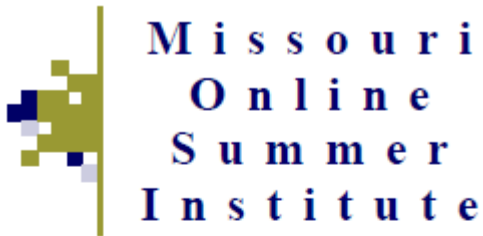
A free virtual summer school program with over 80 courses (including CTE and AP courses)

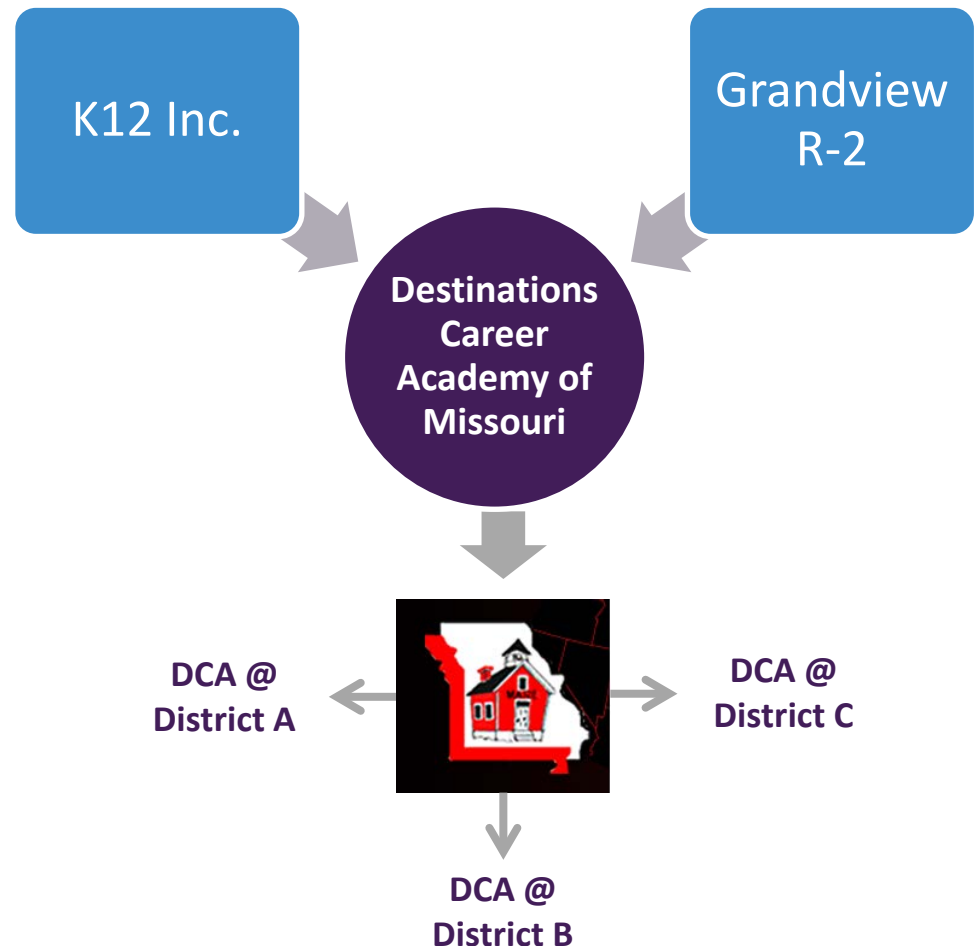| Sample Summer CTE Pathways and Courses		
	Pharmacy Technician	**Accounting**
Year 1	Business and Healthcare Exploration	Business and Healthcare Exploration
Year 2	Health Science II Medical Terminology	Marketing I
Year 3	Anatomy and Physiology I Anatomy and Physiology II	Accounting I Accounting II
Year 4	Pharmacy Assistant Exam Prep	Entrepreneurship I
	Pharmacy Tech Certification	A*S*K Industry Certification
No cost to the district or students Students must have access to computer and internet		

District Partner Program

Grandview R-2 School District and K^{12} are exploring the creation of a Destinations Career Academy as part of the Grandview virtual education program. We would propose a district partner program through MARE for districts to establish their own Destinations program.

- Potential consortium program through MARE
- Integrated CTE experience
  - 12+ pathways leading to 25+ industry and national certifications
  - Dual enrollment opportunities as they are developed
  - Virtual CTSO chapter (SkillsUSA)
  - College & career planning tools
  - Internships
  - NCRC Test Prep
  - Counselors & other support service
- Program cost and services would be based on course volume
- **Potential pilot in Fall 2017 for interested districts**

K12 Inc.

Grandview R-2

Destinations Career Academy of Missouri

DCA @ District A

DCA @ District C

DCA @ District B

Contact Information

K12

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Show Me State Virtual Education

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