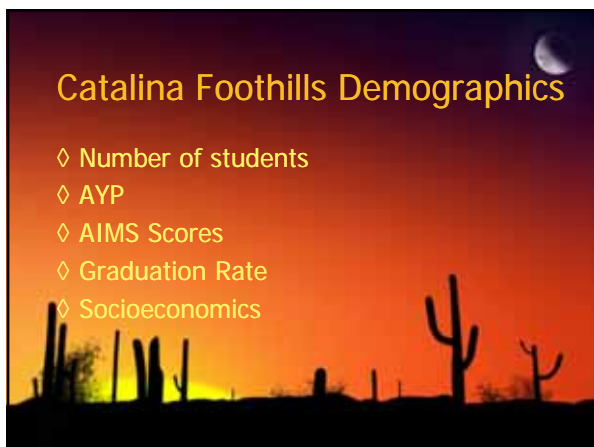


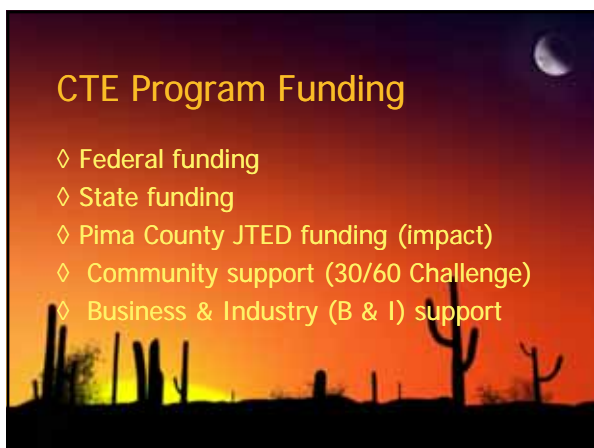
**Curricular Integration:
Adopting Rigorous, Relevant,
and Coherent Standards**

By Jill Ranucci, Ph.D.



Catalina Foothills Demographics

- ◇ Number of students
- ◇ AYP
- ◇ AIMS Scores
- ◇ Graduation Rate
- ◇ Socioeconomics



CTE Program Funding

- ◇ Federal funding
- ◇ State funding
- ◇ Pima County JTED funding (impact)
- ◇ Community support (30/60 Challenge)
- ◇ Business & Industry (B & I) support



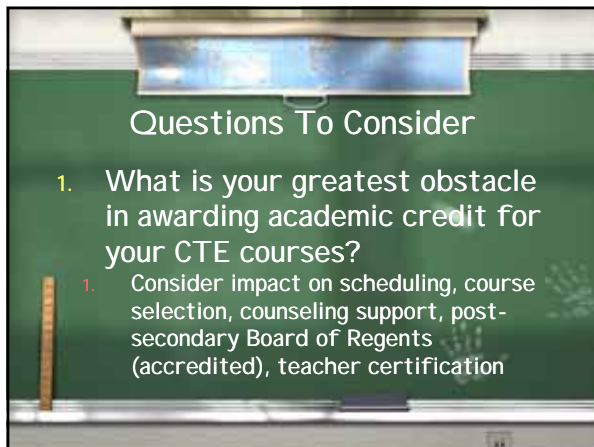
Emerging Programs to Include Academic Credit

- 21st Century Skills - Scientific Inquiry
- Global competitiveness (what do we offer globally?)
- Local workforce
- Changing Workforce demands 80%/20%
- Increased graduation requirements
- Dual credit opportunities



2008 Emerging Arizona Program Areas (state)

- ✓ Biosciences – Science
- ✓ Engineering – Science and/or Math
- ✓ Performing Arts – Fine Arts
- ✓ Rigor
- ✓ Relevance



Questions To Consider

1. What is your greatest obstacle in awarding academic credit for your CTE courses?
 1. Consider impact on scheduling, course selection, counseling support, post-secondary Board of Regents (accredited), teacher certification

Questions To Consider

👉 What "best practices" guidelines support your districts curriculum?

👉 Consider the impact of Marzano-type rubrics combined with CTE and STEM standards.

Questions To Consider

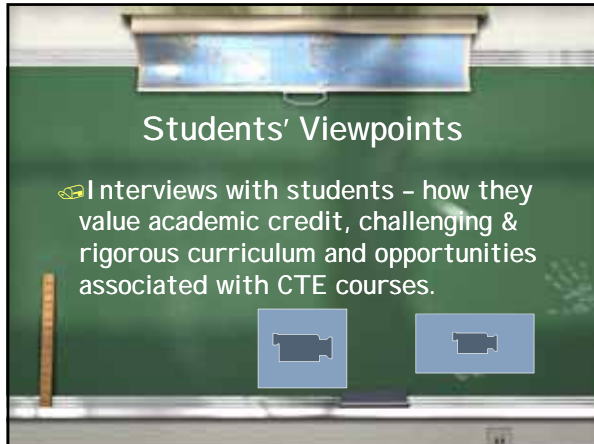
👉 How often does your district revise course curriculum?

- 👉 Who oversees the revision?
- 👉 Are CTE courses part of your district's revision cycle?
- 👉 Who crosswalks CTE and STEM standards; and/or other academic standards?

Questions To Consider

👉 What is the value of offering academic/CTE credit to your students?

👉 Consider college entrance, workplace credentials, school recognition, post-secondary opportunity for dual credit



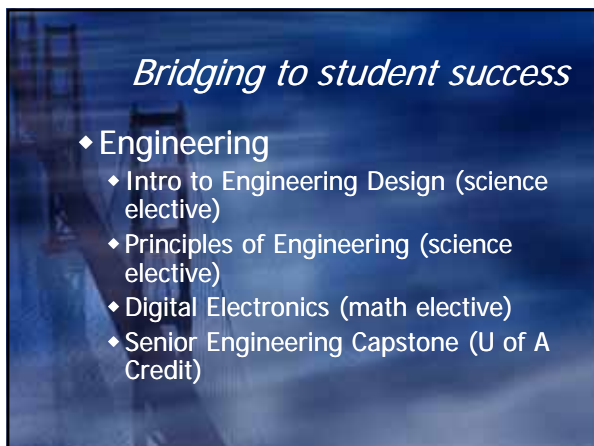
Students' Viewpoints

🗣️ Interviews with students – how they value academic credit, challenging & rigorous curriculum and opportunities associated with CTE courses.



Bridging to student success

- ◆ Agriscience Course Sequence
 - ◆ Environmental Biology (Biology)
 - ◆ Anatomy & Physiology (Science elective)
 - ◆ Environmental Chemistry (Chemistry)
 - ◆ Natural Renewable Resources – (Physics Options)



Bridging to student success

- ◆ Engineering
 - ◆ Intro to Engineering Design (science elective)
 - ◆ Principles of Engineering (science elective)
 - ◆ Digital Electronics (math elective)
 - ◆ Senior Engineering Capstone (U of A Credit)

Bridging to student success

- ◆ Biotechnology (science elective)
 - ◆ Advantages:
 - ◆ Academic credit
 - ◆ Rigorous curriculum
 - ◆ Cross-walked standards
 - ◆ Collaboration between math, science, administration, counseling and CTE department
 - ◆ Industry standard skill acquisition
 - ◆ Post-secondary recognition

Advisory Boards/CTSO's

- ☑ Teachers, Industry leaders/businesses, Administrators, Students/Parents, Local colleges and Universities
- ☑ Integrate and collaborate for students success
 - ☑ Opportunities for internships, coop, and workplace experience
 - ☑ Strengthen the transition to post-secondary education

Certified Teachers and Expectations

- ⊕ State requirements
- ⊕ District requirements
- ⊕ Teachers commitment
- ⊕ CTSO commitment
- ⊕ Industry certified
- ⊕ Industry experience
- ⊕ Advisory collaboration

Challenges

- Faculty - availability and preparedness
- Equipment/Supplies/Maintenance
- Facility availability/renovations
- Marketing programs to district and community
- Graduation restrictions
- Teacher stipends/Professional development & other costs

Dream BIG !

- Take advantage of financial opportunities to expand - i.e. JTEDS
- Revise former curriculums - 21st Century skills
- Creative Curriculum
- Proposals need to include data
- Collaborate with your school and surrounding community
- Don't be afraid to ask

QUESTIONS?



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