“Preparing our Students for their Future.”

“Roadmap to Success”
Career Technical Education
LCAP Priority 2 Continued

Information Report No. 4
November 1, 2016

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LCAP Priorities for Student Achievement

To prepare students for their future, GUSD will focus on:

1. **Implementing** California State Standards

2. **Ensuring** College and/or Career Readiness

3. **Addressing** Social, Emotional and Physical Needs of All Students

4. **Providing** Intervention Programs

5. **Creating** Learning Beyond the Core Curriculum

6. **Encouraging** Engagement of Parents, Teachers, Staff, Students and Community Members

7. **Maintaining** Safe and Secure Learning Environments
Outcomes

• Review current CTE programs in GUSD
• Discuss some CTE partnerships
• Explain work based learning opportunities for students
• Discuss current dual enrollment with GCC
• Challenges with CTE programs
• Explain next steps to move GUSD forward
What are GUSD’s CTE Programs?
Elementary CTE Programs

- Lego Robotics
  - Thank you Glendale Education Foundation
  - Annual Elementary Robotics Competition hosted by Roosevelt
- Planet Bravo at Edison Technology Magnet
- Basic Computer Skills (Word/PowerPoint)
Middle School CTE Programs

- Vex Robotics
- Green Engineering
- Animation/Gaming
- Culinary
- Small Engines/Electronics
- Forensics
- Woodshop
- School of Coding/Web Design
- Cosmetology
Middle School CTE Programs

- Paxton-Patterson Labs
- MESA: Math Engineering Science Achievement through
  - Partnership with Cal State LA
  - Individual and Team Regional and State Competitions
    - Civil Engineering, Mechanical Engineering, Aerospace, and Math
High School CTE Programs

• Cinematography
• Animation
• Automotive
• Culinary
• Fashion
• PSA (Public Safety Academy) Fire
• Stage Technology/Arts
High School CTE Programs

- Graphic Arts/Technology
- Gaming
- Child development
- Cosmetology
- Construction
- Biotechnology
- Computer Science
- Sports Therapy/Medicine
High School CTE Programs

• GIS (Geographical Information System)
  – Dominique Evans-Bye (Teacher of the Year)
• Advanced Manufacturing/Robotics
• Photography/Technology
• Commercial Multi-Media
• Tech Lit
• Entrepreneurship
• Science and Medicine
High School CTE Programs

- First Robotics
- Cyber Patriots/Cyber Security
- MESA Program
- ACE Program
  - Architecture-Construction-Engineering
    - Mentor Program, Guest Speakers, Job Shadowing, Mentoring, Competition, and Scholarship
Software Used

• Adobe Creative Cloud
  – Photoshop, Inventor, Illustrator, InDesign

• Animation/Gaming
  – Maya, Zbrush, Unity gaming, Toonboom (story boarding), After Effects

• Cinema
  – AVID (editing); Adobe Premiere

• CAD (Computer Aided Design)
  – Autodesk, Inventor, Solid works, Sketch up

• GIS: ESRI Program
What are GUSD’s current Partnerships?
CTE Partnerships

• Honda Research and Design, Wolverine Media, Animation Guild, Art Directors Guild, Visual Effects Society, Hasbro, Warner Brothers, Fon Davis Studios, Skype with Reload Studio, Disney, E! Entertainment and Brand Boulevard of Cars
  – Job Shadowing, Mentoring, Tours, Guest Speakers, Fieldtrips and Work Based Learning Opportunities

• Workforce Investment Board, GCC, CSUN
CSUN Pre-College Bridge Program

- Saturday Academy classes taught by college professors and held at CSUN
  - Open to middle and high school students
  - 16 week sessions
    - bus transportation provided
  - Advanced Manufacturing/3D Printing
  - Entrepreneurship
  - Animation/Gaming
  - Web Design
What are GUSD’s Work Based Learning Opportunities?
CTE Work Based Learning

- Balfour Beatty
- Cummings Corporation
- NAC Architecture
- BPI Inspection
- Swinerton Construction
- CBS
- Arc light Production
- Key Code Media
- Random Inc.
- DGE Engineering
What are GUSD’s and GCC’s Dual Enrollment Classes?
Dual Enrollment Classes

- Taught by a college professor
- Student receives college credit and high school elective credit
  - Architecture 101
  - Speech 101
  - Student Development 125
  - Administration of Justice 101
  - Medical Terminology 182
  - Automotive Courses (Rio Hondo College)
What are GUSD’s CTE Challenges?
CTE Challenges

• Shortage of qualified CTE teachers
• Period in the day to commit to a pathway
• Competition with other programs
• Shift in “thinking” related to CTE programs and the many benefits
• Approval of CTE course for a-g approval
• CTE in the State is changing and expanding quickly but is being funded
• Lack of comprehensive District CTE plan
CTE First Step is Program Alignment

• 11 Elements of a High Quality CTE Program
• 15 Industry Sectors
• Pathways
  – Must have a three year sequence to qualify as a CTE “completer”
• Program of Study – Course Sequence
• Course Outlines
• Class Syllabus
11 Elements of a High Quality CTE Program

1. Leadership at all levels
2. High-quality curriculum and instruction
3. Career exploration and guidance
4. Student support and student leadership development
5. Industry partnerships
6. System alignment and coherence
7. Effective organizational design
8. System responsiveness to changing economic demands
9. Skilled faculty and professional development
10. Evaluation, accountability, and continuous improvement
11. CTE promotion, outreach, and communication
15 Industry Sectors

1. Agriculture and Natural Resources
2. Arts, Media, and Entertainment
3. Building and Construction Trades
4. Business and Finance
5. Education, Child Development, and Family Services
6. Energy, Environment, and Utilities
7. Engineering and Architecture
15 Industry Sectors

8. Fashion and Interior Design
9. Health Science and Medical Technology
10. Hospitality, Tourism, and Recreation
11. Information and Communication Technology
12. Manufacturing and Product Development
13. Marketing Sales and Service
14. Public Services
15. Transportation
GUSD Current Pathways

- Advanced Manufacturing (Engineering)
  - 9th Introduction to Robotics
  - 10th Principles of Engineering
  - 11th Computer Aided Manufacturing
  - 12th Advanced Computer Aided Manufacturing
    - Work Based Learning/Internship Opportunity
GUSD Current Pathways

• Automotive (Dual Enrollment-Rio Hondo)
  – 8th Small Engines/Electronics
  – 9th Under Hood Repair (Auto 101)
  – 10th Under Car Repair (Auto 103)
  – 11th Electrical Systems (Auto 106)
  – 12th Light Service (Auto 107)
  • Work Based Learning/Internship Opportunity
GUSD Current Sector/Pathways

• Arts, Media and Entertainment
  – 9th Cinema; Animation; Graphic Arts; Photo; Commercial Multi-Media (1-2)
  – 10th Cinema; Animation; Graphic Arts; Photo; Commercial Multi-Media (3-4)
  – 11th Cinema; Animation; Graphic Arts; Photo; Commercial Multi-Media (5-6)
  – 12th Cinema; Animation; Graphic Arts; Photo; Commercial Multi-Media (7-8)
  • Work Based Learning/Internship Opportunity
GUSD Current Pathways

• Green Science – Geographical Information System (GIS)
  – 9th Ocean, Technology and Engineering
  – 10th Geology of Disaster
  – 11th Science Research
  – 12th Environmental GIS
    • Work Based Learning/Internship Opportunity
GUSD Current Pathways

• Health and Biotechnology
  – 9th Medical Terminology
  – 10th Medical Anatomy & Physiology
  – 11th Sports Medicine/Therapy & Kinesiology
  – 12th Athletic Trainer or Emergency Medical Technician (EMT)*
    • Work Based Learning/Internship Opportunity

* must be 18 years old
GUSD Current Pathways

• Construction
  – 9th Construction 1-2; Tech Cabinet Carpentry 1-2
  – 10th Construction 3-4; Tech Cabinet Carpentry 3-4
  – 11th Construction 5-6; Tech Cabinet Carpentry 5-6
  – 12th Tech Cabinet Carpentry 7-8
  • Work Based Learning/Internship Opportunity
GUSD Current Pathways

• Cosmetology
  – 9\textsuperscript{th} Cosmetology 1-2
  – 10\textsuperscript{th} Cosmetology 3-4
  – 11\textsuperscript{th} Cosmetology 5-6
  – 12\textsuperscript{th} Cosmetology 7-8
  • Work Based Learning/Internship Opportunity
GUSD Current Pathways

• Culinary
  – 9\textsuperscript{th} Culinary 1-2
  – 10\textsuperscript{th} Culinary 3-4
  – 11\textsuperscript{th} Culinary 5-6
  – 12\textsuperscript{th} Culinary 7-8
  • Work Based Learning/Internship Opportunity
Possible GUSD New Pathways

- Game Design & Integration
- Computer Science
- Cyber Security
- Administrative Justice/Homeland Security
- Child Development
- Education
- Health Information and Medical Billing
- Construction Management/Building Inspector
Top 10 Occupations/New Jobs in L.A. County by 2020
Requiring Postsecondary Vocational Education
1. Nursing Aides
2. Licensed Practical and Vocational Nurses
3. Dental Assistants
4. Cosmetologists
5. Firefighters
6. First-Line Supervisors of Production
7. Telecommunications Equipment Installers
8. Emergency Medical Technicians and Paramedics
9. Health Technologists and Technicians
10. Medical Records and Health Information Technicians
Top 10 Occupations/New Jobs in L.A. County by 2020
Requiring an Associates Degree

1. Registered Nurses
2. General and Operation Managers
3. Preschool Teachers
4. Paralegal
5. Medical and Clinical Lab Techs
6. Eligibility Interviewer Government Program
7. Construction Managers
8. Dental Hygienists
9. Respiratory Therapists
10. Radiologic Technologists
What are GUSD’s CTE Next Steps?
CTE Next Steps

• Develop a 1-3 year GUSD CTE plan
• Continue to develop, expand, enhance, improve, and promote/market District pathways
• Develop new pathways to address the regional job shortages
• Establish Middle School CTE programs and afterschool programs to support pathways
• Recruit and hire high skill CTE teachers
CTE Next Steps

• AB 288 requires Community Colleges (CC) and Districts to develop CTE pathways leading to “stackable certificates” and AA degrees
  – Supports College and/or Career Readiness
• Expand Dual Enrollment and CTE Courses
  – During the school day, weekends, summer and breaks (all courses are free to students)
  – Explore other Community College Partnerships
  – Expand Partnership with CSUN
CTE Funding Sources

• California Career Pathway Trust Grant (CCPT) $2.4M  
  – Burbank Unified School District, GCC, CSUN
• Career Technical Education Incentive Grants (CTEIG) $2.6M
• District CTE LCAP Funds $1.8M
• Perkins $200,000
QUESTIONS