



*“Preparing our Students for their Future.”*

# “Roadmap to Success”

## Career Technical Education

LCAP Priority 2 Continued

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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

# California's Career Technical Education:

## Preparing Students for the 21st Century and Beyond

"We seek the key when every enterprise in California—public and private—has access to a pool of talent that both attracts the world's leading businesses and hastens the development and success of new ones, creating opportunities for all."

### INDUSTRY SECTORS

**Engineering and Architecture**

- Architectural Design
- Engineering Technology
- Engineering Design
- Environmental Engineering

**Building and Construction Trades**

- Cabinetry, Millwork, and Woodworking
- Engineering and Heavy Construction
- Mechanical Systems Installation and Repair
- Residential and Commercial Construction

**Transportation**

- Operations
- Structural Repair and Refinishing
- Systems Diagnostics, Service, and Repair

**Fashion and Interior Design**

- Fashion Design and Merchandising
- Interior Design
- Personal Services

**Education, Child Development, and Family Services**

- Child Development
- Consumer Services
- Education
- Family and Human Services

**Hospitality, Tourism, and Recreation**

- Food Science, Dietetics, and Nutrition
- Food Service and Hospitality
- Hospitality, Tourism, and Recreation

**Marketing, Sales, and Services**

- Marketing
- Professional Sales
- Entrepreneurship/Self-Employment

**Arts, Media, and Entertainment**

- Design, Visual, and Media Arts
- Performing Arts
- Production and Managerial Arts
- Game Design and Integration

**Energy, Environment, and Utilities**

- Environmental Resources
- Energy and Power Technology
- Telecommunications

**Health Science and Medical Technology**

- Biotechnology
- Patient Care
- Health Care Administrative Services
- Health Care Operational Support Services
- Public and Community Health
- Mental and Behavioral Health

**Manufacturing and Product Development**

- Graphic Production Technologies
- Machining and Forming Technologies
- Welding and Materials Joining
- Product Innovation and Design

**Business and Finance**

- Business Management
- Financial Services
- International Business

**Information and Communication Technologies**

- Information Support and Services
- Networking
- Software and Systems Development
- Games and Simulation

**Agriculture and Natural Resources**

- Agricultural Business
- Agricultural Mechanics
- AgriScience
- Animal Science
- Forestry and Natural Resources
- Ornamental Horticulture
- Plant and Soil Science

**Public Services**

- Public Safety
- Emergency Response
- Legal Professions

"We seek the key when every enterprise in California—public and private—has access to a pool of talent that both attracts the world's leading businesses and hastens the development and success of new ones, creating opportunities for all."





# 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)
  - 9<sup>th</sup> Introduction to Robotics
  - 10<sup>th</sup> Principles of Engineering
  - 11<sup>th</sup> Computer Aided Manufacturing
  - 12<sup>th</sup> Advanced Computer Aided Manufacturing
    - Work Based Learning/Internship Opportunity

# GUSD Current Pathways

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

# GUSD Current Sector/Pathways

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

# GUSD Current Pathways

- Green Science – Geographical Information System (GIS)
  - 9<sup>th</sup> Ocean, Technology and Engineering
  - 10<sup>th</sup> Geology of Disaster
  - 11<sup>th</sup> Science Research
  - 12<sup>th</sup> Environmental GIS
    - Work Based Learning/Internship Opportunity

# GUSD Current Pathways

- Health and Biotechnology
    - 9<sup>th</sup> Medical Terminology
    - 10<sup>th</sup> Medical Anatomy & Physiology
    - 11<sup>th</sup> Sports Medicine/Therapy & Kinesiology
    - 12<sup>th</sup> Athletic Trainer or Emergency Medical Technician (EMT)\*
      - Work Based Learning/Internship Opportunity
- \* must be 18 years old

# GUSD Current Pathways

- Construction
  - 9<sup>th</sup> Construction 1-2; Tech Cabinet Carpentry 1-2
  - 10<sup>th</sup> Construction 3-4; Tech Cabinet Carpentry 3-4
  - 11<sup>th</sup> Construction 5-6; Tech Cabinet Carpentry 5-6
  - 12<sup>th</sup> Tech Cabinet Carpentry 7-8
    - Work Based Learning/Internship Opportunity



# GUSD Current Pathways

- Cosmetology
  - 9<sup>th</sup> Cosmetology 1-2
  - 10<sup>th</sup> Cosmetology 3-4
  - 11<sup>th</sup> Cosmetology 5-6
  - 12<sup>th</sup> Cosmetology 7-8
    - Work Based Learning/Internship Opportunity

# GUSD Current Pathways

- Culinary
  - 9<sup>th</sup> Culinary 1-2
  - 10<sup>th</sup> Culinary 3-4
  - 11<sup>th</sup> Culinary 5-6
  - 12<sup>th</sup> 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