

Superintendent's Update Science, Technology, Engineering, Arts, and Math (STEAM) Opportunities in GUSD Schools

Board of Education Meeting

November 16, 2021

Meeting No. 10



College, Career, Life Ready Graduates

Academic Rigor

- High Expectations
- Pathways, Choices & Personalization
- Cultural Competence



Safe Learning Environment

- Inclusion
- Mental & Physical Wellness
- Sense of Belonging

Board of Education Priorities



Board of Education Priorities



Maximize Student Achievement

- Close the digital and equity gap.
- Offer robust in-person and independent study learning programs.
- Accelerate learning and improve attendance and engagement.

Foster a Positive Culture of Learning

- Ensure equitable teaching and learning opportunities led by excellence.
- Support culturally relevant curriculum that emphasizes inclusion.
- Increase school connectedness for students, parents, and families.

Ensure the Health and Safety of Students and Employees

- Strengthen mental health support and programs.
- Ensure best practices for safe and healthy learning environments.
- Support physical, social, and emotional wellbeing.

Maintain District Financial Responsibility

- Ensure the fiscal health of the District.
- Implement a fiscal plan to preserve the District resources.
- Plan for the District's future educational and facility needs.

Maximize Student Achievement

- Close the digital and equity gap.
- Offer robust in-person and independent study learning programs.
- Accelerate learning and improve attendance and engagement.

Secondary Science Course Progression

Typical Pathway for CVHS, DHS, GHS, HHS, VA

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Living Earth	Chemistry in the Earth System	Physics of the Universe	Elective Science
		AP Physics I	

Typical Pathway for Clark Magnet HS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Physics of the Universe	Living Earth	Chemistry in the Earth System	Elective Science

Science Pathways – With Summer Acceleration

CVHS, GHS, HHS

	Summer Pre-9 th Grade	9 th Grade	Summer Pre-10 th Grade	10 th Grade	11 th Grade	12 th Grade
Option 1	Living Earth	Chemistry in the Earth System		Physics of the Universe	Elective Science	Elective Science
				AP Physics I		
Option 2		Living Earth	Chemistry in the Earth System	Physics of the Universe	Elective Science	Elective Science
				AP Physics I		

Science Pathway – With Summer Acceleration

Clark Magnet

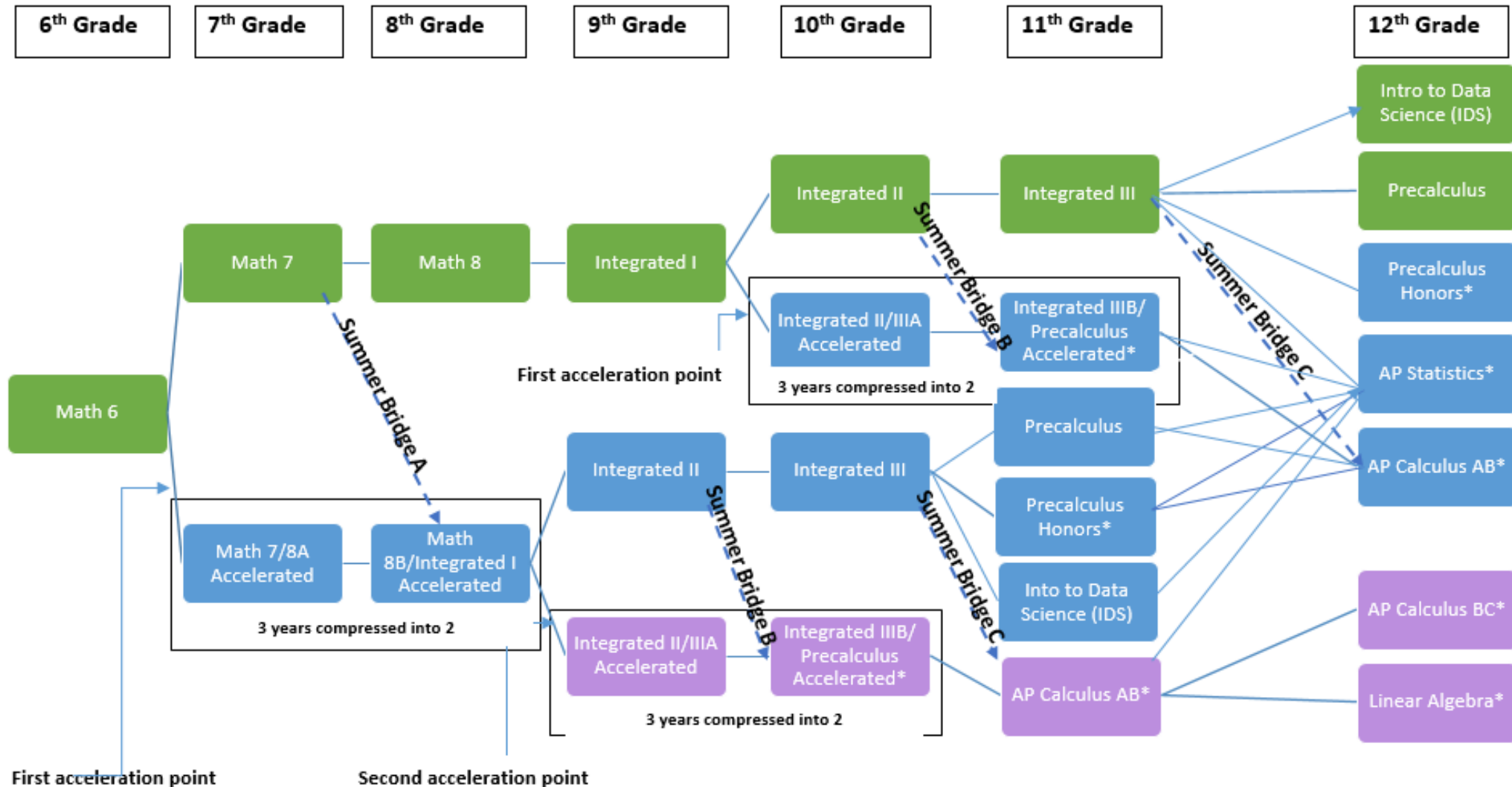
	9 th Grade	10 th Grade	Summer Pre-11 th Grade	11 th Grade	12 th Grade
Option	Physics of the Universe	Living Earth	Chemistry in the Earth System	Elective Science	Elective Science

Elective Science Options:

- AP Biology
- AP Chemistry
- AP Environmental Science (CVHS, Clark)
- AP Physics I, II, C
- Earth & Space Science
- Environmental GIS, Honors Env. GIS, and Honors GIS & Remote Sensing (Clark)
- Forensic Science (HHS)
- Geology of Disasters (Clark)
- Marine Biology (GHS)
- Physiology (CVHS, GHS, HHS)
- Honors Physiology (CVHS, GHS, HHS)
- Kinesiology Rehab (CVHS)
- Courses in CVHS Science CTE Pathway: BioTech, Sports Medicine, Advanced Sports Medicine, Healthcare Internship, and Science Research



Secondary Math Course Progression





CTE Industry Sector Pathways Through Elementary, Middle, and High School

STEAM Focus



ARTS, MEDIA AND ENTERTAINMENT

Animation Clark Magnet HS
Digital Arts Hoover HS, Glendale HS, Dally HS, Toll MS, Roosevelt MS, Wilson MS
Cinematography Clark Magnet HS, Glendale HS, Crescenta Valley HS, Wilson MS
Photography Clark Magnet HS, Crescenta Valley HS, Hoover HS
Digital Design Clark Magnet HS
Entertainment Technology & Live Production Hoover HS, Crescenta Valley HS
Studio Arts Hoover HS, Toll MS
Professional Certifications
 AVID Professional Editor • Adobe • OSHA



HEALTH, SCIENCE AND MEDICAL TECHNOLOGY

Biotechnology Crescenta Valley HS, Rosemont MS
Patient Care Crescenta Valley HS
Professional Certifications
 EKG Technician • HIPPA • National Occupational Competency Testing Institute (NOCTI) Health Assisting Exam & Certified Nursing Assistant (CNA Certification Preparation)



ENGINEERING AND ARCHITECTURE

Engineering Design and Technology Clark Magnet HS, Glendale HS, Rosemont MS, Toll MS, Roosevelt MS
Professional Certifications
 NIMS • Immerse2Learn • ArcGIS Desktop



MANUFACTURING AND PRODUCT DEVELOPMENT

Graphic Production Technologies Crescenta Valley HS, Rosemont MS
Professional Certifications
 Adobe InDesign, Photoshop, Illustrator



HOSPITALITY, TOURISM AND RECREATION

Food Service and Hospitality - Culinary Dally HS, Hoover HS, Glendale HS, Wilson MS, Roosevelt MS, Toll MS, Rosemont MS
Professional Certifications
 ServSafe



FASHION AND INTERIOR DESIGN

Personal Services - Cosmetology Glendale HS, Roosevelt MS
Personal Services - Barbering Dally HS
Professional Certifications
 Certificate of Completion: Cosmetology Business and Industry Academy
 CA Board of Barbering and Cosmetology License



BUILDING AND CONSTRUCTION TRADES

Residential and Commercial Construction Glendale HS, Rosemont MS



PUBLIC SERVICES

Public Safety - Police and Fire Academy Hoover HS, Toll MS
Professional Certifications
 FEMA ICS 100, 200 • NIMS 700, 800 • CPR
 First Aid • EKG Technician • EMT



TRANSPORTATION

Systems Diagnostics, Service, and Repair Hoover HS, Toll MS
Operations Air Force JROTC Crescenta Valley HS



INFORMATION AND COMMUNICATION TECHNOLOGIES

Programming and Systems Development Crescenta Valley HS, Glendale HS, Rosemont MS, Wilson MS, Roosevelt MS, Toll MS
Software Systems Development & Networking Clark Magnet HS



BUSINESS AND FINANCE

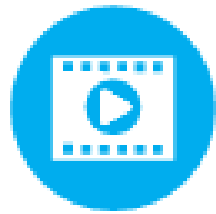
Business Management Clark Magnet HS



EDUCATION, CHILD DEVELOPMENT AND FAMILY SERVICES

Education Hoover HS

For more information contact the GUSD CTE Office at (818) 241-3111, ext. 2100 or visit www.gusd.net/cte



ARTS, MEDIA AND ENTERTAINMENT

Animation *Clark Magnet HS*

Digital Arts *Hoover HS, Glendale HS, Daily HS, Toll MS, Roosevelt MS, Wilson MS*

Cinematography *Clark Magnet HS, Glendale HS, Crescenta Valley HS, Wilson MS*

Photography *Clark Magnet HS, Crescenta Valley HS, Hoover HS*

Digital Design *Clark Magnet HS*

Entertainment Technology & Live Production *Hoover HS, Crescenta Valley HS*

Studio Arts *Hoover HS, Toll MS*

Professional Certifications

AVID Professional Editor • Adobe • OSHA



HEALTH, SCIENCE AND MEDICAL TECHNOLOGY

Biotechnology *Crescenta Valley HS,
Rosemont MS*

Patient Care *Crescenta Valley HS*

Professional Certifications

EKG Technician • HIPPA • National
Occupational Competency Testing Institute
(NOCTI) Health Assisting Exam & Certified
Nursing Assistant (CNA Certification
Preparation



ENGINEERING AND ARCHITECTURE

Engineering Design and Technology

*Clark Magnet HS, Glendale HS, Rosemont MS,
Toll MS, Roosevelt MS*

Professional Certifications

NIMS • Immerse2Learn • ArcGIS Desktop



MANUFACTURING AND PRODUCT DEVELOPMENT

Graphic Production Technologies
Crescenta Valley HS, Rosemont MS

Professional Certifications

Adobe InDesign, Photoshop, Illustrator



INFORMATION AND COMMUNICATION TECHNOLOGIES

Programming and Systems Development

*Crescenta Valley HS , Glendale HS,
Rosemont MS, Wilson MS, Roosevelt MS, Toll MS*

Software Systems Development & Networking *Clark Magnet HS*



TRANSPORTATION

Systems Diagnostics, Service, and Repair

Hoover HS, Toll MS





Operations Air Force JROTC

Crescenta Valley HS

Arts, Media, and Entertainment



Mark Keppel Elementary
Visual and
Performing Arts Magnet
School

 <p>Digital Arts Ceramics & Sculpture Visual Art Photography Design</p>	 <p>Digital Arts Ceramics & Sculpture Visual Art Photography Design Performance & Video Production</p>	 <p>Digital Arts Ceramics & Sculpture Visual Art Photography Design</p>	 <p>Digital Arts Ceramics & Sculpture Visual Art Photography Design</p>	
 <p>Animation Cinematography Photography Design</p>	 <p>Cinematography Performance & Video Production</p>	 <p>Photography</p>	 <p>Digital Arts Cinematography Ceramics & Sculpture</p>	 <p>Animation Ceramics & Sculpture Visual Art Photography Performance & Video Production</p>

Jaclyn Scott

Principal, Mountain Avenue Elementary



Excelling Together with Endless Pathways for Success!



Mountain Avenue Elementary

Providing pathway experiences for young learners:

- Coding
 - Partnered with Windtree
 - 10 Weeks
 - 30 minutes per week
 - Grades TK-6
- Arts
 - Partnering with Inner City Arts
 - 45 minutes per week in all classrooms
 - Resident artist in classrooms for 10 weeks

Mountain Avenue Elementary: Coding Fun!



Lena Kortoshian

Principal, Clark Magnet High School



Excelling Together with Endless Pathways for Success!



Clark Magnet High School CTE Pathways

Arts, Media, & Entertainment Sector

Program	Intro Course	Concentrator 1	Concentrator 2	Capstone/Intern	GCC or Certification
Animation	Tech Lit Comp	Computer Animation 1-2	Computer Animation 3-4	Computer Animation 5-6	Computer Animation 5-6 (GCC Art 201)
Cinematography	Cinematography 1-2	Cinematography 3-4	Cinematography 5-6 Honors	Arts, Media & Entertainment/Cinema Internship	AVID Certified User
Design	Tech Lit	Design 1-2	Design 3-4	Design 5-6	
Digital Photography	Tech Lit	Digital Photography Foundations 1-2	Honors Digital Photography 3-4	AP Studio Art 2D	Digital Photo Fnd. 1-2 (GCC Photo 101) Honors Digital Photo 3-4 (GCC Photo 130)



Clark Magnet High School CTE Pathways

Engineering and Architecture Sector

Program	Intro Course	Concentrator 1	Concentrator 2	Capstone/Intern	GCC or Certification
Engineering	Tech Lit	Intro to Engineering 1-2	Principles of Engineering & Manufacturing 3-4	Comp aided manufacturing 5-6	Intro to Engineering 1-2 (GCC ENGR 117) Principles of Engineering/Manufacturing 3-4 (GCC ENGR 120)
Engineering	Tech Lit	Robotics Team Project 1-2	Honors Robotics Team 3-4		Robotics Team Project 1-2 (GCC ENGR 130)
Architecture	Tech Lit		Architecture 101, 102		Architecture 101, 102
Geographical Info System (GIS)	Tech Lit	Geology of Disaster	Honors GIS, Remote sensing	Honors Env GIS	(GCC Geo 155) ArchGIS Certification



Clark Magnet High School CTE Pathways

Business Management Sector

Program	Intro Course	Concentrator 1	Concentrator 2	Capstone/Intern	GCC or Certification
Entrepreneurship/ Business		Business Foundation & Law 1-2	Bus Com & Social Media Marketing 3-4	Bus Com & Social Media Marketing 4 Internship	Bus 101, 110, 141 Google Fundamentals of Digital Marketing Certification

Information & Communication Technologies Sector

Program	Intro Course	Concentrator 1	Concentrator 2	Capstone/Intern	GCC or Certification
Information Technology/ Cyber Security	Tech Lit	Info Systems & Info Tech Essentials 1-2	Networking & Cyber Security 3-4		Info Systems & Info Tech Essentials 1-2 (GCC CS/IS 194) Test Out PC Pro, Test Out Network Pro, and Test Out Security Pro.

Clark Magnet High School NEW CTE Pathways

- Architecture 250
- 2D Animation Pathway
- Comic Illustration Pathway
- Engineering Pathway
- Manufacturing Pathway



Dr. Jennifer Earl

Principal, Hoover High School



Excelling Together with Endless Pathways for Success!



Hoover High School CTE Pathways

Arts, Media, and Entertainment

Program	Intro Course	Concentrator	Capstone	Additional Course	GCC or Certification
Animation/ Cinema/ 3D Digital Design	Digital Arts 1-2	Digital Arts 3-4	Digital Arts 5-6		Articulated Courses, Adobe Cert
Stage Technician	Entertainment Tech & Live Production 1-2	Entertainment Tech & Live Production 3-4	Entertainment Tech & Live Production 5-6		Articulated Courses, OSHA Cert
Photography	Photography Foundations 1-2	Honors Photography 3-4	AP Studio Art 2D	Photography Seminar	Articulated Courses
Visual Art	Studio Art 1-2	Honors Studio Art 3-4	AP Studio Art Drawing	Studio Art Seminar	Articulated Courses
Ceramics & Sculpture	Intro to Ceramics & Sculpture 1-2	Intermediate Ceramics & Sculpture 3-4	Advanced Ceramics & Sculpture		



Hoover High School CTE Pathways

Hospitality, Tourism, and Recreation

Program	Intro Course	Concentrator	Capstone	Internship	GCC or Certification
Culinary Arts	Culinary 1-2	Culinary 3-4	Culinary 5-6	Food Service & Hospitality	Articulated Courses, e-Food Handlers; ServSafe

Transportation

Program	Intro Course	Concentrator	Capstone	Additional Course	GCC or Certification
Automotive	Intro to Auto Serv & Repair 101	Intro to Auto Serv & Repair 103	Auto Elec & Diagnostic	Intro to Auto Light Systems	Articulated Courses (Rio Hondo), General Service Tech Cert



Hoover High School Additional Personalized Learning Pathways

- Early College Academy
- Distinguished Scholars Academy

GUSD STEAM Magnets

Now Accepting Lottery Applications for Fall

- Cerritos Elementary
 - Computer Science Immersion Magnet
- Edison Elementary
 - Advanced Technology Magnet
- Keppel Elementary
 - Visual & Performing Arts Magnet
- Roosevelt Middle School
 - STEAM Academy Magnet

