



Architecture

Pathway Information

Architectural Drafting & Design is the study of the design of the single-family dwelling with emphasis on the ranch type structure. Discussion covers the latest construction innovations, framing techniques, scale detail drawing, and the drafting of working drawings. Study explores in greater detail the applicable building codes pertinent to residential construction, modular construction, solar planning, insulation requirements, orientation, and other facets of construction.

Colleges/Universities with Related Field

Southern California Institute of Architecture
Woodbury University
USC School of Architecture
Los Angeles Institute of Architecture and Design
Otis College of Art and Design
Syracuse University

Wages and Salary

National Median of Annual Salary: **\$76,190**
National Median of Hourly Salary: **\$36.63**
California Median of Annual Salary: **\$88,316**
California Median of Hourly Salary: **\$42.46**
Source: U.S. Bureau of Labor & Statistics, 2020

Courses Offered at: Clark Magnet High School

For Additional Information Scan:



Careers in Architecture

Architects	Interior and Landscape
Construction and Building Inspectors	Designers
Industrial Designers	Drafters
Landscape Architects	Construction Managers
Textile Designer	Political Architect
Extreme Weather Architect	Restoration Architect
	Structural Engineer

For more information:
Visit www.gusd.net/CTE
Contact: cte@gusd.net
(818) 241-3111 Ext. 2100



Engineering & Manufacturing

Pathway Information

The engineering pathway empowers students to step into the role of an engineer and adopt a problem-solving mindset while making a leap from dreamers to doers. Students gain valuable experiences taught from in-demand courses which provide knowledge of industry skills and insight into common practices.

Colleges/Universities with Related Field

California Polytechnic University
University of California, Los Angeles
University of California, Berkeley
Harvey Mudd College
Stanford University
California Institute of Technology
University of Southern California

Wages and Salary

National Median of Annual Salary: **\$96,304**
National Median of Hourly Salary: **\$46.30**
California Median of Annual Salary: **\$113,505**
California Median of Hourly Salary: **\$54.57**
Source: U.S. Bureau of Labor & Statistics, 2020

Careers in Engineering & Manufacturing

Junior Drafter	Mechanical Engineer
CAD Technician	Aerospace Engineer
Construction	Computer Hardware Engineer
Apprentice	Engineer
Engineering Aid	Nuclear Engineer
Computer/Security	Civil Engineering
Equipment Installer	Welding Engineer
Agricultural Engineer	

Courses Offered at:
Glendale HS and Clark Magnet HS

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Geographical Information System

Pathway Information

Courses in this pathway integrate geospatial technologies with environmental science. The courses incorporate the use of geographic information systems in science, government, and business to evaluate and address environmental issues and to promote sustainability. GIS classes will focus primarily on project-based, student-directed learning and aim towards entering original research into science competitions.

Colleges/Universities with Related Field

University of Texas at Austin
Michigan State University
University of Southern California
University of Pennsylvania
University of California, Santa Barbara
George Washington University
Brandman University
California State University, Northridge

Courses Offered at:
Clark Magnet High School

For Additional Information Scan:



Wages and Salary

National Median of Annual Salary: **\$68,390**
National Median of Hourly Salary: **\$32.88**
California Median of Annual Salary: **\$88,587**
California Median of Hourly Salary: **\$42.59**
Source: U.S. Bureau of Labor & Statistics, 2020

Careers in Geographical Information System

Cartographer	Forester
Geographer	Geologist
Surveyor	Environmental Scientist
Engineer	Urban Planner
Remote Sensing	Geodesist
Analyst	Cartographic Technician
Conservationist	Photogrammetrist
Climate Scientist	

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