

ENGINEERING, CONSTRUCTION & DESIGN (ECD)

Rosemont High School

rosemont.scusd.edu/engineering-construction-design

916-395-5130

ECD can be found on Facebook, Instagram, Twitter, and Snapchat: ECD@RHS



Mission

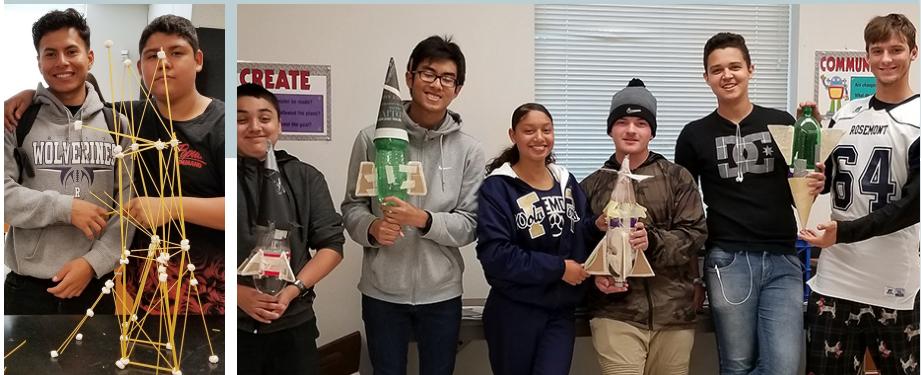
Engineering, Construction, and Design (ECD) students thrive in a challenging, yet supportive integrated academic program while exploring and solving real world problems through industry sponsored project-based experiences.

Description

Through real world experiences and examples, Engineering, Construction, and Design students will study and implement the engineering design process using industry-standard drafting techniques and tools (by hand and CADD.) They research professions, review failure and ethics, and engage with electronics programming, robotics, alternative energy uses, and constructing techniques using professional quality tools. Throughout all experiences in ECD, students will acquire professional skills and build career awareness.



*Increasing
creative confidence
through
Linked
Learning*



PATHWAY STUDENT OUTCOMES

Through rigorous coursework, all students will complete their A-G requirements and prepare for opportunities to pursue post secondary studies and/or explore careers in technical industries and/or skilled trades. Students can choose to focus primarily on engineering and design or the skilled construction trades. Students have the ability to earn industry-standard certifications as well as college credit through the Los Rios Community College district.

WHAT I LIKE
ABOUT
pathway

"ECD gives me the **ability to work with my hands** and use my knowledge." — Allister Arriaga, 10th grade

"It's [ECD] **bringing me closer to my dream of computer programming as a career.**"

— Patrick Lomperski, 11th grade

"That was so **cool and so scary at the same time!**"

— Maishalya Wright, 11th grade,
while using the mitre saw for the first time

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LINKED
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PROGRAM OF STUDY

SUBJECT	HIGH SCHOOL COURSES				PROGRAM OF STUDY				RELATED OCCUPATIONS
	9 th	10 th	11 th	12 th	Math I, II, II+, III, III+	Biology	World History	U.S. History	
English	English 9	English 10	English 11	English 12					High School Diploma Apprenticeship Program leading to Journey level Master Tradesperson
Math									
Science	Physics								2 Years College (AA) or Certificate
History and Social Science	Geography/Contemporary Global Issues								Welder Electrician Carpenter Plumber Pipe Fitter HVAC Installer Drafting Coding
Foreign Language, Art and PE		2 years Foreign Language AND 1 year Art Elective, 2 years of P.E. required							
Career Technical Courses	Engineering, Construction, Design	Drafting and Design	Engineering Technology or Construction Technology	Advanced Engineering Technology or Advanced Construction Technology					4 Years College or more Construction Management Engineering/Design (Mechanical, Civil, Computer, Electrical) Business/Entrepreneurship/Law
Work Based Learning Opportunities	Guest speakers	Visits to Architect's office, current job sites, SMUD training facility, guest speakers	Construction trade career fair	Construction trade career fair					

For more information on SCUSD's Linked Learning Pathways, visit www.scusd.edu/linkedlearning

PARTNERS

Founding Partners:

APMC

Northern California MCA

UA Local #447

NECA

IBEW Local #340

CSU, Sacramento

SMACNA Sacramento Valley

SMART 104

SMUD

Contributing Industry Members:

Schetter Electric

Lawson Mechanical

Project Consultants:

RKF Consulting

Jeff Wright

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