

CAREER TECHNICAL EDUCATION TRANSITION GUIDE ENGINEERING & DESIGN

8TH-9TH GRADE

Career Awareness & Exploration Options

To sign up for career awareness events, see your counselor or College & Career Center.

8th Grade Career Exploration Electives

CTE Roadshows, STEAM Day, Career Showcase events

CTE Summer Camps (July)

Take the College & Career Seminar Class 9th/10th-grade year or start a high school CTE Pathway

Take a Career Test
[CA Career Zone](#)
[CA Colleges](#)

10TH-12TH GRADE

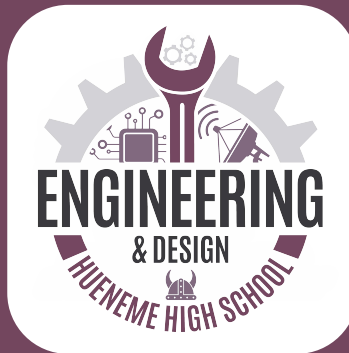
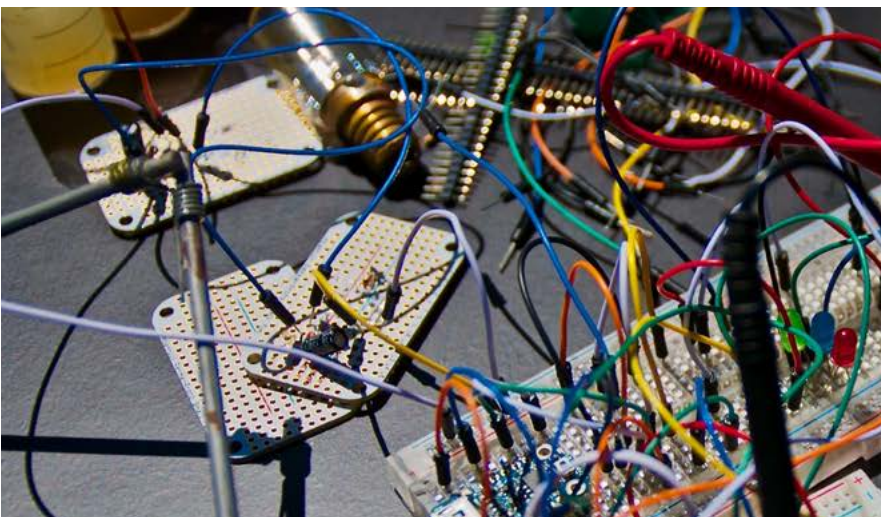
Career Preparation Options

Take 2 years of an Academy of Engineering & Design or a related ROP/Community College class

Join career-ed after-school programs. Programs are 13 weeks, days and times vary.
[After-School Programs](#)

Career Expo

Attend workshops hosted by your College & Career Center. Workshops include: resume writing, interview skills, career-themed guest speakers, financial aid, scholarships, and more!



SCAN ME
for program links and pathway info



POST SECONDARY

Career Training Options within 60 miles

Community College (6 months to 2 years)

Oxnard College	Engineering, AS	https://bit.ly/42DydbO
Ventura College	Engineering, AS	https://bit.ly/3p2FTa2
Ventura College	Pre-Computer Science, AA	https://bit.ly/3oZEnW2
Moorpark College	Engineering, AS	https://bit.ly/3MVtMTW
Moorpark College	Computer Science, AST	https://bit.ly/3NBLeid
Santa Barbara City College	Engineering, AA/AS	https://bit.ly/42AoPpA
Santa Barbara City College	Computer Science, AST or AS	https://bit.ly/43ZTw8T
Los Angeles Pierce College	Engineering Design & Technology, AS	http://bit.ly/4nvyM33
Los Angeles Pierce College	Programming for Computer Science, AS	http://bit.ly/3lq553Y
Los Angeles Valley College	Computer Science, AS	https://bit.ly/4cpXoVr

University of California (4 years)

University of California Los Angeles (UCLA)	Electrical Engineering, BS	https://bit.ly/3p47ibK
University of California Los Angeles (UCLA)	Computer Science, BS	https://bit.ly/42BRjz2
University of California Santa Barbara (UCSB)	Electrical Engineering, BS	https://bit.ly/3CoVFPP
University of California Santa Barbara (UCSB)	Computer Science, BS	https://bit.ly/3oTsX6q

California State University (4 years)

California State University Channel Islands (CSUCI)	Mechatronics Engineering, BS	https://bit.ly/3N32wmB
California State University Channel Islands (CSUCI)	Computer Science, BS	https://bit.ly/3P3kM1W
California State University Northridge (CSUN)	Mechanical Engineering, BS	http://bit.ly/47Tb7EI
California State University Northridge (CSUN)	Computer Science, BS	https://bit.ly/42FVFFw

Private (4 years)

University of Southern California (USC)	Applied Computational Mathematics, BS	https://bit.ly/3NqYBS5
California Institute of Technology (Caltech)	Engineering & Applied Science, BS	https://bit.ly/3NrvTR7

Adult Education and Trade/Apprenticeship Programs (6 months to 2 years)

Simi Institute for Career & Education	CNC Operations and Programming, Certificate Introduction to CAD/CAM Programming, Certificate Advanced CNC Programming Concepts, Certificate	http://bit.ly/4nds2Xm
Ventura Adult and Continuing Education (VACE)	3D Modeling and Design Drafter, Award Computer Aided Drafter, Award	https://bit.ly/3NjWX3B
Local 501	The Operating and Maintenance Engineers Apprenticeship Program	https://bit.ly/461Pr5B
International Union of Operating Engineers, Local 12	Operating Engineer Apprenticeship	https://bit.ly/42Elwg3

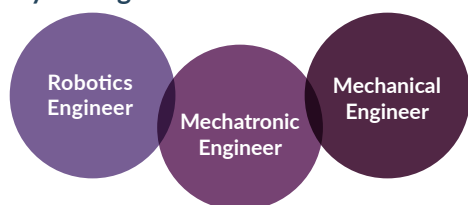
Professional Organizations

Association for Computing Machinery
<https://www.acm.org/>

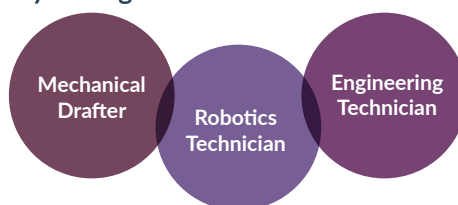
The American Society of
Mechanical Engineers
<https://www.asme.org/>

Future Careers

4 year degree:



2 year degree:



Certificates/Training/Some College:



Additional Options:



LEVELS OF EDUCATION

High School Diploma

Associates Degree or Certificate
6 MONTHS - 2 YEARS

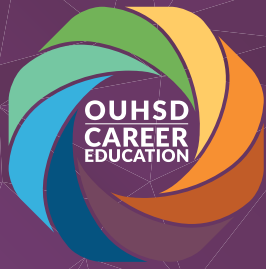
Bachelor's Degree
+ 4 YRS

Master's Degree
+ 2 YRS

Doctorate
+ 3-4 YRS

How much can I make? www.bls.gov/oo

How many jobs are out there? www.onetonline.org



CARRERA DE EDUCACIÓN TÉCNICA

GUÍA DE TRANSICIÓN

INGENIERÍA Y DISEÑO

8VO-9NO GRADO

Opciones de exploración y conocimiento profesional

Para inscribirse en eventos de concientización profesional, consulte a su consejero o al Centro Universitario y Profesional.

Materias Optativas de exploración profesional de octavo grado

Espectáculos itinerantes de CTE, Día STEAM, eventos de exhibición de carreras

Campus de verano de CTE (julio)

Realice la clase de seminario universitario y profesional en el noveno y décimo grado o comience un programa CTE en la escuela secundaria

Realizar una evaluación de carrera
[Zona de Carreras de CA](#)
[CA Colleges](#)

10MO-12VO GRADO

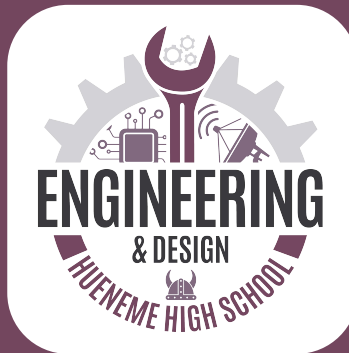
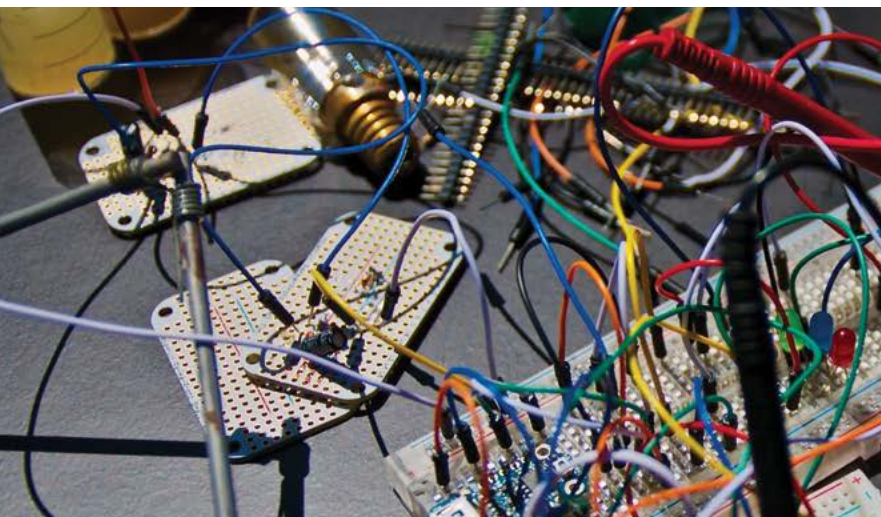
Opciones para preparación profesional

Cursar 2 años en una Academia de Ingeniería y Diseño o una clase relacionada ROP/colegio comunitario

Inscríbese en programas extracurriculares de carreras. Los programas duran 13 semanas, los días y los horarios pueden variar.
[Programas extracurriculares](#)

Exposición de carreras

¡Asista a los talleres organizados por su Centro universitario y de carrera. Los talleres incluyen: redacción de currículums, habilidades para entrevistas, oradores invitados con temas profesionales, ayuda financiera, becas y más!



ESCANÉAME
para enlaces de programas e información de especialidades



NIVELES POSTERIORES A LA SECUNDARIA

Opciones de estudios de carreras dentro de las 60 millas

Colegio comunitario (de 6 meses a 2 años)

Oxnard College	Ingeniería, AS	https://bit.ly/42DydbO
Ventura College	Ingeniería, AS	https://bit.ly/3p2FTa2
Ventura College	Preinformática, AA	https://bit.ly/3oZEnW2
Moorpark College	Ingeniería, AS	https://bit.ly/3MVtMTW
Moorpark College	Informática, AST	https://bit.ly/3NBLeid
Santa Barbara City College	Ingeniería, AA/AS	https://bit.ly/42AoPpA
Santa Barbara City College	Informática, AST o AS	https://bit.ly/43ZTw8T
Los Angeles Pierce College	Diseño y Tecnología de Ingeniería, AS	http://bit.ly/4nvyM33
Los Angeles Pierce College	Programación para Informática, AS	http://bit.ly/3lq553Y
Los Angeles Valley College	Informática, AS	https://bit.ly/4cpXoVr

University of California (4 años)

University of California Los Angeles (UCLA)	Ingeniería Eléctrica, BS	https://bit.ly/3p47ibK
University of California Los Angeles (UCLA)	Informática, BS	https://bit.ly/42BRjz2
University of California Santa Barbara (UCSB)	Ingeniería Eléctrica, BS	https://bit.ly/3CoVFPP
University of California Santa Barbara (UCSB)	Informática, BS	https://bit.ly/3oTsX6q

California State University (4 años)

California State University Channel Islands (CSUCI)	Ingeniería Mecatrónica, BS	https://bit.ly/3N32wmB
California State University Channel Islands (CSUCI)	Informática, BS	https://bit.ly/3P3kM1W
California State University Northridge (CSUN)	Ingeniería Mecánica, BS	http://bit.ly/47Tb7EI
California State University Northridge (CSUN)	Informática, BS	https://bit.ly/42FVFFw

Privado (4 años)

University of Southern California (USC)	Matemática Computacional Aplicada, BS	https://bit.ly/3NqYBS5
California Institute of Technology (Caltech)	Ingeniería y Ciencias Aplicadas, BS	https://bit.ly/3NrvTR7

Educación para adultos y programas de formación profesional (de 6 meses a 2 años)

Simi Institute for Career & Education	Operaciones y Programación CNC, Certificado Introducción a la Programación CAD/CAM, Certificado Conceptos Avanzados de Programación CNC, Certificado	http://bit.ly/4nds2Xm
Ventura Adult and Continuing Education (VACE)	Dibujante de Diseño y Modelado 3D, Premio Dibujante Asistido por Computadora, Premio	https://bit.ly/3NjWX3B
Local 501	Ingenieros de Explotación y Mantenimiento Programa de Aprendizaje	https://bit.ly/461Pr5B
International Union of Operating Engineers, Local 12	Aprendizaje de Ingeniero Operativo	https://bit.ly/42Elwg3

Organizaciones profesionales

Association for Computing Machinery
<https://www.acm.org/>

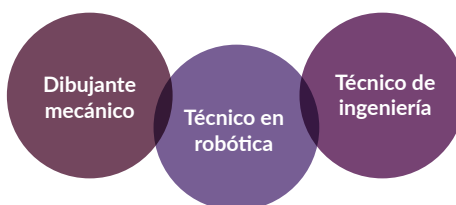
The American Society of Mechanical Engineers
<https://www.asme.org/>

Carreras futuras

Licenciaturas de 4 años:



Licenciaturas de 2 años:



Certificados/Capacitaciones/Algunas universidades:



Opciones adicionales:



¿Cuánto puedo ganar? www.bls.gov/ooh

¿Cuántos empleos existen? www.onetonline.org

NIVELES DE EDUCACIÓN

Diploma de secundaria

Título de asociados o Certificado 6 MESES - 2 AÑOS

Título universitario + DE 4 AÑOS

Maestría + DE 2 AÑOS

Doctorado + DE 3-4 AÑOS