ENGINEERING & DESIGN

INDUSTRY
Engineering and Architecture

Pick your Passion

The Engineering and Architecture sector is designed for students to explore design in the various engineering fields. Projects include hands-on experiments, robotics, and building scaled models. Internships in this program may occur in engineering firms, architectural firms, and manufacturing firms.

PATHWAYS OFFERED
- Engineering Technology
- Architectural Design

COURSES OFFERED
[see back for course sequence]
- Introduction to Design • UCCI Green Up and Go
- Principles of Engineering • Computer-Integrated Manufacturing
- Digital Electronics • Design Technology
- Engineering Design and Development • Introduction to Design
- Civil Engineering and Architecture

CTE Sequence of Courses

Course Sequence and Offerings | 2018-2019

Industry / Pathway	1 Foundation	2 Intermediate	3 Advanced
Clairemont High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989) *~Engineering Design and Development 1, 2 * (8404, 8405) H(8383, 8384)*
Henry High			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Civil Engineering and Architecture 1, 2 * (8171, 8172) H(8319, 8320)	Civil Engineering and Architecture 3, 4 * (8173, 8174)
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989) Engineering Design and Development 1, 2 * (8404, 8405) H(8383, 8384)
Hoover High			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658) UCCI Green Up and Go * (6240, 6241)	Civil Engineering and Architecture 1, 2 * (8171, 8172) H(8319, 8320)	*~Civil Engineering and Architecture 3, 4 * (8173, 8174)*
Kearny High EID			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658) UCCI Green Up and Go * (6240, 6241)	Civil Engineering and Architecture 1, 2 * (8171, 8172) H(8319, 8320)	Civil Engineering and Architecture 3, 4 * (8173, 8174)
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658) UCCI Green Up and Go * (6240, 6241)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Engineering Design and Development 1, 2 (8404, 8405) H(8383, 8384) Computer-Integrated Manufacturing 1, 2 • (3586, 3587) H(3663, 3664)

key/notes

1. * UC a-g Approved
2. • Receives Community College Credit
3. ~ *Future class not currently available*
4. H denotes Honors

Office of College, Career and Technical Education, 858.503.1758, sandi.net/ccte

Engineering & Design

Course Sequence and Offerings | 2018-2019

Industry Pathway	1 Foundation	2 Intermediate	3 Advanced
Lincoln High			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989)
Madison High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Engineering Design and Development 1, 2 * (8404, 8405) H(8383, 8384)
			Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989)
Mira Mesa High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Engineering Design and Development 1, 2 * (8404, 8405) H(8383, 8384)
Mission Bay High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Engineering Design and Development 1, 2 * (8404, 8405) H(8383, 8384)
			IB Design Technology HL 2 (3669, 3670)
Morse High			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Civil Engineering and Architecture 1, 2 * (8171, 8172) H(8319, 8320)	*Civil Engineering and Architecture 3, 4 * (8173, 8174)*
Point Loma High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989)
			Engineering Design and Development 1, 2 * (8404, 8405) H(8383,
Scripps Ranch High			
Architectural Design Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Civil Engineering and Architecture 1, 2 * (8171, 8172) H(8319,	*-Civil Engineering and Architecture 3, 4 * (8173 8174)*
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989)
San Diego High SciTech			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658) *-UCCI Green Up and Go!*	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Digital Electronics 1, 2 * (8957, 8958) H(8979, 8989)
Serra High			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Computer-Integrated Manufacturing 1, 2 • (3586, 3587) H(3663, 3664)
University City			
Engineering Technology Pathway	Introduction to Design 1, 2 *• (3657, 3658)	Principles of Engineering 1, 2 *• (8847, 8848) H(8368, 8369)	Computer-Integrated Manufacturing 1, 2 • (3586, 3587) H(3663, 3664)

key/notes

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