



SDCCD and SDUSD High Schools Engineering and Design Industry Sectors

The recommended pathways below are for informational purposes only. The appropriate Counselor at each institution must be consulted for proper guidance on the recommended pathways.

GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	Other Required Courses and Other H.S. CTE Electives	CAREER AND TECHNICAL EDUCATION COURSES RECOMMENDED ELECTIVE COURSES COLLEGE - PREP FOR MAJOR COURSES (Choose One Pathway Below)		
						Engineering Technology Pathway	Environmental and Natural Sciences Engineering Pathway	
4x4 High School	9	English 1,2	Algebra 1,2	Physics 1,2	Career & Life Management 1,2	Exploring Technology	Computer Applications in Business 1,2 (TP Credit: SDCCD CBTE 103, CBTE 120 = up to 5 units total)	Computer Applications in Business 1,2 (TP Credit: SDCCD CBTE 103, CBTE 120 = up to 5 units total)
	10	English 3,4 or Advanced Eng. 3,4 and AVID	Intermediate Algebra	Chemistry 1,2	World History		Drafting Technology 1,2,3,4; Electronics Technology	Introduction to Engineering Design 1 (TP Credit: ENGE 130 = up to 3 units total)
	11	American Lit. (1 sem.) or AP English (1 year)	Geometry 1,2	Biology	US History	Principles of Engineering	Machine Tool Technology (ROP) (TP Credit: MACT 140 = up to 4 units total); Computer Aided Drafting/Design (ROP) (TP Credit: ARCH 100, ARCH 105 = up to 4 units total)	
	12	World Literature or English Lit. (1 sem) or AP English (1 yr.)	Pre-Calculus or Calculus		American Gov. (1 sem.) & Economics (1 sem)		Civil Engineering and Architecture (ROP); Digital Electronics (ROP); Engineering Design & Development (ROP)	Computer Aided Drafting/Design (ROP) (TP Credit: ARCH 100, ARCH 105 = up to 4 units total)
*Prerequisite courses for College level English/math (i.e. ENG 101/ Math 96) may be necessary depending on assesment level								
City, Mesa, Miramar Colleges	Administer Accuplacer Assessment (Necessary for Math and English Placement at SDCCD)							
	<u>SCHEDULE AN APPOINTMENT TO DEVELOP AN EDUCATIONAL PLAN W/ A COLLEGE COUNSELOR UPON ENROLLMENT AT SDCCD</u>							
	Certificates of Achievement that do not require completion of general education may also be available. Meet with a college counselor for more information.							
	*Prerequisite courses for College English/math may be necessary depending on assesment level						Associate Degrees (AA/AS) applicable to Computer Hardware, Electrical & Networking Career Pathway (60 units required)	AA/AS Degrees applicable to Engineering Design Career Pathway (60 units required)
	Year 1 Semester 1	Ex: English 101*	Ex: Math 96*			PE	Up to 8 units can be earned in high school for CBTE 103, CBTE 120, ENGE 130	Up to 12 units can be earned in high school for CBTE 103, CBTE 120, ENGE 130, ARCH 100, ARCH 105
	Year 1 Semester 2	Ex: Speech 103		Ex: Physical Science 100		Ex: Music 109		Associate Degrees: Architecture Survey; Architecture Technician; Architecture Transfer; Construction Management; Landscape Architecture Technician; Landscape Architecture Transfer
Year 2 Semester 1	Ex: English 205		Ex: Biology 100/101	Ex: Hist 109	PE	Associate Degrees: Administrative Assistant		
Year 2 Semester 2				Ex: Hist 110	Ex: ANTH 103			
For information on transfer to the university: 1) meet with your SDCCD Counselor for proper ed planning 2) complete admission requirements 3) submit university application during published filing periods								

Required Courses/General Ed.
Recommended Electives
Career Technical Education Courses

Career Technical Education Courses apply to SDCCD AA/AS Degrees

* Check with your counselor to verify which SDCCD campus offers your

**•Available through Tech Prep (TP) articulation, credit by exam and/or dual Enrollment
Mandatory Assessments, Advising, and Additional Preparation**

which SCCC campus offers your
AA/AS degree