



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)		
						Computer Hardware, Electrical & Network Engineering Pathway	Engineering Design Pathway	
4x4 High School	9	English 1,2	Algebra 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	Physics 1,2	World History	Introduction to Engineering Design 1 (TP Credit: ENGE 130=up to 3 units total)	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 ROP	Computer Science 1,2	Drafting Technology 1,2,3,4; Electronics Technology 1,2; Engineering Design & Dev (ROP)
	Junior Year - Assess college English and math readiness							
	*Prerequisite courses for College level English/math (i.e. ENG 101/ Math 96) may be necessary depending on assesment level							
12	World Literature or English Lit. (1 sem) or AP English (1 yr.)	Pre-Calculus or Calculus		American Gov. (1 sem.) & Economics (1 sem)	Digital Electronics (ROP)		Computer Aided Drafting/Design (ROP) (TP Credit: ARCH 100, ARCH 105= up to 4 units total)	
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.								
City, Mesa, Miramar Colleges	*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		
	Year 2 Semester 1	Ex: English 205		Ex: Biology 100/101	Ex: Hist 109	PE	Associate Degrees: Administrative Assistant	Associate Degrees: Architecture Survey; Architecture Technician; Architecture Transfer; Construction Management; Landscape Architecture Technician; Landscape Architecture Transfer
	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

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

Verify which SCCC campus
offers your AA/AS degree