



## SDCCD and SDUSD 4x4 High Schools Engineering and Design Industry Sector

\*\*\*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)
4x4 High School	SAMPLE						
	9	English 1,2	Algebra 1,2	Physics 1,2	Career & Life Management 1,2	Exploring Technology; Architectural Drafting 1,2,3,4	Computer Applications in Business 1,2 (TP Credit: CBTE 103, CBTE 120=up to 5 units total); Introduction to Engineering Design 1 (TP Credit: ENGE 130= up to 3 units total)
	10	English 3,4 or Advanced Eng. 3,4 and AVID	Intermediate Algebra	Biology 1,2	World History	Drafting Technology 1,2,3,4	Computer Aided Design/Architecture 1,2; Principles of Engineering (ROP);
	11	American Lit. (1 sem.) or AP English (1 year)	Geometry 1,2	Chemistry 1,2	US History		Computer Aided Drafting (ROP) or Civil Engineering and Architecture (ROP)(TP Credit: ARCH 105= up to 2 units total)
	<b>Junior Year - Assess college English and math readiness</b>						
	*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)		Engineering Design and Development (ROP)	
City, Mesa, Miramar Colleges	<b>Administer Accuplacer Assessment (Necessary for Math and English Placement at SDCCD)</b>						
	<b><u>SCHEDULE AN APPOINTMENT TO DEVELOP AN EDUCATIONAL PLAN W/ A COLLEGE COUNSELOR UPON ENROLLMENT AT SDCCD</u></b>						
	Certificates of Achievement that do not require completion of general education may also be available. Meet with a college counselor for more information.						
	<b>*Prerequisite courses for College English/math may be necessary depending on assesment level</b>						<b>Associate Degrees (AA/AS) applicable to Architectural and Structural Engineering career pathway above (60 units req.)</b>
	Year 1 Semester 1	Ex: English 101 *	Ex: Math 96 *			PE	Up to 10 units can be earned in high school for CBTE 103, CBTE 120, ARCH 105. ENGE 130
	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	<b>Associate Degree:</b> Architecture Survey; Architecture Technician; Architecture Transfer; Construction Management; Landscape Architecture Technician; Landscape Architecture Transfer; Woodbury University Transfer	
Year 2 Semester 2				Ex: Hist 110	Ex: ANTH 103		
<b>For information on <u>transfer to the university</u>: 1) meet with your SDCCD Counselor for proper ed planning 2) complete admission requirements 3) submit university application during published filing periods</b>							

<i>Required Courses/General Ed.</i>	<i>Recommended Electives</i>	<i>Career Technical Education Courses</i>	
Career Technical Education Courses apply to SDCCD AA/AS Degrees			
• Available through Tech Prep (TP) articulation, credit by exam and/or dual Enrollment			
Mandatory Assessments, Advising, and Additional Preparation			* Check with your counselor to verify which SDCCD campus offers your AA/AS degree