



SDCCD and SDUSD High Schools Transportation 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)		
						Energy and Environmental Technology Career Pathway		
4x4 High School	SAMPLE	9	English 1,2	Algebra 1,2	Physics 1,2	Career & Life Management 1,2	Electronics Technology 1,2; Exploring Technology	Computer Applications in Business 1,2 (TP Credit: CBTE 103, CBTE 120=up to 5 units total) Intro 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	Tech Core 1,2	Transportation Technology 1,2,3,4 <u>AND</u> ROP Auto Quick Service (TP Credit: AUTO 032=up to 3 units total)	
	11	American Lit. (1 sem.) or AP English (1 year)	Geometry 1,2	Chemistry 1,2	US History	Biotechnology (ROP)	Manufacturing Technology 1,2; Digital Electronics (ROP); Engineering Design and Development (ROP); Environmental Science 1,2; Geographic Information Systems and Global Technology (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)	NATEF Automotive Tech(ROP)	Machine Tool Technology (ROP) (TP Credit: MACT 140=up to 4 units total); Principles of Engineering(ROP) (TP Credit: MFET 101A= up to 1 unit total)		
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							
	Year 1 Semester 1	Ex: English 101 *	Ex: Math 96 *			PE	Associate Degrees (AA/AS) applicable to Energy and Environmental Technology career pathway above (60 units req.)	
	Year 1 Semester 2	Ex: Speech 103		Ex: Physical Science 100		Ex: Music 109	Up to 16 units can be earned in high school for CBTE 103, CBTE 120, ENGE 130, AUTO 032, MACT 140, MFET 101A	
Year 2 Semester 1	Ex: English 205		Ex: Biology 100/101	Ex: Hist 109	PE	<u>Associate Degree: Automotive Technology; Machine Technology; Manufacturing Engineering Technology, Electronics or Fabrication Option; Computer Aided Manufacturing</u>		
Year 2 Semester 2				Ex: Hist 110	Ex: ANTH 103			
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								

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