



# SDCCD and SDUSD High Schools

## Energy and Utilities Services 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)	
	<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)	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	<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.							
	*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	Associate Degree: Automotive Technology; Machine Technology; Manufacturing Engineering Technology, Electronics or Fabrication Option; Computer Aided Manufacturing		
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								

<b>Required Courses/General Ed.</b>	<b>Recommended Electives</b>	<b>Career Technical Education Courses</b>
<b>Career Technical Education Courses apply to SDCCD AA/AS Degrees</b>		
<b>•Available through Tech Prep (TP) articulation, credit by exam and/or dual Enrollment</b>		
<b>Mandatory Assessments, Advising, and Additional Preparation</b>		

\* Check with your counselor to verify which SDCCD campus offers your AA/AS degree