

CTE PROGRAM OF STUDY				Industry Sector:	Transportation							
Secondary & Post Secondary				Career Pathway:	Vehicle Maintenance, Service, and Repair							
				Program of Study:	Automotive Technology and Truck Driving							
Levels	Grade	ELA	Math	Science	Social Science	CTE Courses		Other Recommended Courses and UC/CSU Requirements	Sample Occupations Related to this pathway			
S E C O N D A R Y	7	x	x	x	x	Career Exploration		Physical Education	Occupations requiring a high school diploma or equivalent			
	8	x	x	x	x							
	Assessments, advising or additional preparation - 8th Grade Promotion											
			Central Union High School		Calexico High School		Both Schools					
	9	California High School minimum graduation requirements -- History/Social Science -- 3 years, including American Government and Economics -- English -- 4 years -- Math -- 2 years (**3 years UC/CSU a-g) -- Science -- 2 years-Biology and Physical -- Visual or Performing Arts or Foreign Language -- 1 required (**2 years UC/CSU a-g) -- PE -- 2 years required -- Other local requirements as required for graduation E.C. 51225.3				**Auto Engine Performance or **Auto Drive Train or **Auto Electrical Systems		Health Education Physical Education Intro to Computers	Occupations requiring Certification or Licensure ASE Automotive Service Technician ASE Mater Technician			
	Assessments, advising or additional preparation - Interest or Skills Assessment (Career Locker)											
	10					**Auto Engine Performance or **Auto Drive Train or **Auto Electrical Systems		ROP Automotive Technology I				
	Assessments, advising or additional preparation - Sophomore Year - California High School Exit Examination (CAHSEE)											
	11	**Auto Engine Performance or **Auto Drive Train or **Auto Electrical Systems or NATEF Approved ROP - AYES - Automotive Technology II (**Brakes, Engine Performance, **Steering & Suspension, Electrical Systems)		*ROP Automotive Technology I or II				Occupations requiring an AA/AS degree (2 years) Line Technician Service Writer or Estimator Smog Technician Inspector				
	Assessments, advising or additional preparation - Junior Year - Administer Early Assessment Program (EAP)											
12	**Auto Engine Performance or **Auto Drive Train or **Auto Electrical Systems or NATEF Approved ROP - AYES - Automotive Technology II (**Brakes, Engine Performance, **Steering & Suspension, Electrical Systems)		*ROP Automotive Technology I or II				Occupations requiring a BA/BS degree (4 years) Fleet Manager or Director Shop Foreperson Parts & Service Manager Manufacturer's Representative Instructor					
Assessments, advising or additional preparation - ACCUPLACER College Entrance Examination and/or ACT and/or SAT												
** Denotes Articulated courses. These must be taken and moved to the secondary level for credit purposes												
P O S T S E C O N D A R Y	Minimum Academic Requirements for AA Degree <i>Semester/Quarter Units - Minimum per Area</i> Area A - Natural Sciences (3/4) Area B - Social and Behavior Sciences (3/4) Area C - Humanities (3/4) Area D - Language and Rationality (3/4) Section 3 - Ethnic Studies (as required) 60 units of Degree Applicable Courses 30 Units of General Education Courses Imperial Valley College: www.imperial.edu Cuyamaca College: www.cuyamaca.edu		CTE Sequence - Cuyamaca College		CTE Sequence - Imperial Valley College							
			29 units for Automotive Technology Major **Articulated with Cuyamaca Valley College **AUT 120 Engine Performance I-Mechanical & Ignition Systems (5 units) AUT 121 Emission Control License (5 units) **AUT 122 Automotive Electrical Systems (5 units) AUT 123 Engine Performance II- Fuel Systems (5 units) AUT 124 Engine Performance III-Drivability (5 units) AUT 180 Automotive Service Advisor (1 unit) AUT 182 Automotive Work Experience (3 units)		39 units for Automotive Technology Major or Certification *course articulated with Calexico High School program AUT 110 Engine Technology (4 units) *AUT 125 Automotive Brakes (4 units) AUT 130 Automotive Electronics I (3 units) AUT 150 Automotive Electronics II (4 units) *AUT 155 Suspension and Wheel Alignment (4 units) AUT 160 Engine Performance Tune-up (3 units) AUT 170 Engine Diagnosis and Repair (3 units) AUT 180 Manual Transmission and Power Trains (4 units) AUT 210 Automotive Air Conditioning (3 units) AUT 220 Mechanical Automatic Transmissions (4 units) AUT 230 Emissions Control and Computer Systems (3 units)							
			Additional recommended courses per college catalog: **Articulated with Cuyamaca College **AUT 99/100 Intro to Auto Tech & Lab (4 units) **AUT 130 Brakes & Brake Licensing (5 units) **AUT 140 Four Wheel Alignment (5 units)		Recommended courses for Major/Certificate: CIS 100 Computer Literacy (1 unit) CIS 110 Windows Operating Systems (1 unit) MATH 070 Basic Mathematics (3 units) WELD 100 Welding Technology (5 units) WE 201 Employment Readiness Class (1 unit) WE 220 Internship (1-4 units) OTHER: ROP Truck Driving							
13	Suggested Majors:		General Education and Major Requirements as per course catalog. Website: www.sdsu.edu						Industry recognized certifications, licenses, credentials/apprenticeships related to this pathway Automotive Service Excellence (ASE) optional certification in one or more of the following eight areas: A1 Engine Repair, A2 Automatic Transmission/Transaxle, A3 Manual Drive Train and Axles, A4 Suspension and Steering, A5 Brakes, A6 Electrical/Electronic Systems, A7 Heating and Air Conditioning, A8 Engine Performance			
14												
15									Automotive Service Excellence (ASE) optional certification in all eight testing areas above for a Master Technician			
16												