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| Career Technical Education (CTE) Program of Study for Entry into 4 Year University | | | | | | | | | | | | | | | | | |
|  | | | **Name:** | | | | | **ID:** | | **Gr:** | | **Department:** Industrial Technology | | | | | |
| **Industry Sector:**  Transportation | | | | | **Career Pathway:**  System Diagnostics, Service and Repair | | | | | | **Student Organization or Club:**  Skills USA | | | |
| **Recommended High School Course Schedule** | | | | | | | | | | | | | | | | | |
| ***Level*** | ***Grade*** | ***English*** | | ***Social Studies*** | | ***Math*** | ***Science*** | | ***Other Required Courses, Electives, CTE*** | | | | ***Other Required Courses, Electives, CTE*** | | | ***Work-Based***  ***Learning Activities*** | |
| Secondary | 9 | English 1 or  English I Pre-AP | | Geography & Health & Wellness | | Geometry | Biology | | Physical Ed 1 | | | | Fine Art | | | * Skills USA | |
| 10 | English 2 or  English 2 Pre-AP | | World History or  World History Adv. | | Algebra 2/ Trigonometry | Chemistry | | Physical Ed 2 | | | | Foreign Language | | | * Skills USA * ROP Industry Day | |
| 11 | English 3 or  AP English  Lang/Comp | | US History or  AP US History | | Probability and Statistics | Physics | | \*\*Automotive Mechanics I | | | | Foreign Language | | | * Skills USA | |
| 12 | English 4 or  AP English Literature | | Government & Economics or AP US Govern. & Politics | | AP Calculus  Foreign Language or Elective | AP Biology, Physics, Chemistry | | \*\*Automotive Mechanics II | | | | \*\* Beginning Drafting or  Metal Shop I or  \*\*Ag Welding I (IT or Ag) | | | * Skills USA * Senior Exit Interviews | |
| Postsecondary | **Articulated Courses: Student earns Merced College units of credit for the identified college course when student passes the ACE (Articulated Credit by Exam)** | | | | | | | | | | | | | | | | |
| MUHSD/ROP | | | | | | MERCED COLLEGE | | | | | | | | | | UNITS |
| Auto Mechanics I/II (only one class receives credit) | | | | | | AUTO 04: Automotive Mechanics | | | | | | | | | | 3 |
| Beginning Drafting | | | | | | DRFT 04A: Fundamentals of Computer-Aided Drafting | | | | | | | | | | 3 |
| Ag Welding I,II (only one class receives credit) | | | | | | WELD 06: Fundamentals of Oxy-Fuel Welding and Shielded Metal Arc Welding | | | | | | | | | | 3 |
| ***\*ROP Certificate Earned at Completion of Course \*\*Merced College credit earned through articulation \*\*\*ROP & Articulation*** | | | | | | | | | | | | | | | | | |
| Merced Community College Coursework Related to the Pathway | | | | | | | | | | | Sample Occupations Related to This Pathway | | | | | | |
| Degrees & Certificates | | | | | Sample Courses | | | | | | AA or AS Degree or Certificate | | | | BS or BA Degree | | |
| Degrees:  AA – Automotive Technology  AA – Toyota-approved Auto Technology  Certificates:  Body and Fender  Engine Performance  Suspension and Brakes  Transmissions  Toyota-approved Auto Technology | | | | | AUTO 32: Wheel Alignment and Suspension  AUTO 33: Automotive Brake Systems  AUTO 42: Automotive Electrical Systems  AUTO 43: Automotive Fuel Systems  AUTO 47: Engine Performance  AUTO 50: Auto Body Repair and Painting  AUTO 62: Basic Automotive Electronics for Technicians  AUTO 65: Automotive Parts and Service Advising | | | | | | Lube/Vehicle Maint. Technician  Brakes/Suspension Technician  Automotive Heavy Line Mechanic  Diesel Equipment Mechanic  Teacher’s Aide/Assistant  Parts Counterperson  SMOG Technician  Service Writer | | | | Shop Manager  Fleet Manager  Parts and Service Manager  Automotive Corporation Service Representative  Insurance Claims Adjuster  Automotive Instructor | | |

Merced College: POS Transportation Service 4 Year University – 4/20/12