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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 orEnglish I Pre-AP | Geography & Health & Wellness  | Geometry | Biology | Physical Ed 1  | Fine Art | * Skills USA
 |
| 10 | English 2 orEnglish 2 Pre-AP | World History orWorld History Adv. | Algebra 2/ Trigonometry | Chemistry | Physical Ed 2  | Foreign Language | * Skills USA
* ROP Industry Day
 |
| 11 | English 3 orAP EnglishLang/Comp  | US History orAP US History | Probability and Statistics | Physics | \*\*Automotive Mechanics I | Foreign Language | * Skills USA
 |
| 12 | English 4 orAP English Literature | Government & Economics or AP US Govern. & Politics | AP CalculusForeign Language or Elective | AP Biology, Physics, Chemistry | \*\*Automotive Mechanics II | \*\* Beginning Drafting orMetal 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 TechnologyAA – Toyota-approved Auto TechnologyCertificates:Body and FenderEngine PerformanceSuspension and BrakesTransmissionsToyota-approved Auto Technology | AUTO 32: Wheel Alignment and SuspensionAUTO 33: Automotive Brake SystemsAUTO 42: Automotive Electrical SystemsAUTO 43: Automotive Fuel SystemsAUTO 47: Engine PerformanceAUTO 50: Auto Body Repair and PaintingAUTO 62: Basic Automotive Electronics for TechniciansAUTO 65: Automotive Parts and Service Advising | Lube/Vehicle Maint. TechnicianBrakes/Suspension TechnicianAutomotive Heavy Line MechanicDiesel Equipment MechanicTeacher’s Aide/AssistantParts CounterpersonSMOG TechnicianService Writer | Shop ManagerFleet ManagerParts and Service ManagerAutomotive Corporation Service Representative Insurance Claims AdjusterAutomotive Instructor |

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