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| Career Technical Education (CTE) Program of Study for Entry into Community College |
|  | **Name:**       | **ID:**       | **Gr:**    | **Department:** Agriculture |
| **Industry Sector:** Agriculture and Natural Resources | **Career Pathway:** Agricultural Mechanics—Emphasis in Power Mechanics | **Student Organization or Club:**Future Farmers of America - FFA |
| **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 | Geography & Health & Wellness for Life | Algebra 1 | Agriculture Life Science | Physical Ed 1  | Strategic English I | * FFA
 |
| 10 | English 2 | World History | Geometry | Environmental Ag Science | Physical Ed 2  | \*\*Ag Shop Skills  | * FFA
* ROP Industry Day
 |
| 11 | English 3 | US History | Algebra 2/ Trigonometry | Ag Earth Science or Physics | ROP Art and History of Floral Design (Fine Art) | \*\*Small Engines and Power Equipment  | * FFA
* ROP Portfolio Day
 |
| 12 | English 4 | Government & Economics | **Select three periods from:**College Prep Math, \*\*Welding Technology I, \*\*\*ROP Environmental Horticulture, \*\*\*ROP Internships in Agriculture (2 periods) | \*\*Power Mechanics | * FFA
* Senior Exit Interviews
* ROP Community

Classroom |
| 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 |  |
| Welding I, II, Equipment Construction I, II | WELD 06: Fundamentals of Oxy-Fuel Welding & Shielded Metal Arc Welding | 3 |
| Small Engines and Power Equipment or Power Mechanics  | MECH 15: Small Gas Engines | 3 |
| Ag Shop Skills PLUS an additional Ag Mechanics Junior/Senior Level Course such as Ag Welding I/II, OR Equipment Construction I/II, OR Small Engines, or Power Mechanics  | MECH 10: Agriculture Skills | 3 |
| ROP Environmental Horticulture | LAND 11: Elements of Landscape Horticulture  | 3 |
| ROP Internships in Agriculture | CO-OP 41A: Cooperative Education in Agriculture  | 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 the Pathway |
| Degrees & Certificates | Sample Courses | AA or AS Degree or Certificate | BS or BA Degree |
| **Degrees:**A.A. or A.S. in Mechanized Agriculture/Heavy Equipment Mechanics**Certificates:**Compact Power EquipmentMechanized Agriculture Technology/Heavy Equipment Mechanic |  MECH 22A: Diesel EnginesMECH 26: Power Equipment Electrical SystemsMECH 34: Service FundamentalsMECH 35: Compact Power EquipmentMECH 40: Equipment RepairWELD 07: Fundamentals of T.I.G. and M.I.GWELD 40A: Welding Design and ConstructionWELD 48: Special Problems in Welding Tech |  Equipment Service TechnicianAgricultural Equipment TechnicianFarm and Power Equipment TechnicianConstruction Equipment TechnicianHydraulic TechnicianDiesel Equipment TechnicianHeavy Equipment OperatorHeavy Duty Electrical Technician |  Shop ManagerParts and Service ManagerTractor Corporation Service Representative Insurance Claims AdjusterGolf Course Superintendent Ag Mechanics Instructor Agricultural Engineer |

Merced College: POS Agriculture Mechanics pathway – Power Equipment Community College – 4/20/12