|  |
| --- |
| 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 Welding Technology | **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  | 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) | \*\*Welding Technology I | * FFA
* ROP Portfolio Day
 |
| 12 | English 4 | Government & Economics | **Select three periods from:**College Prep Math, \*\*Equipment Construction I, \*\*Small Engines and Power Equipment , \*\*\*ROP Environmental Horticulture,  \*\*\*ROP Internships in Agriculture (2 periods), \*\*\*Beginning Drafting  | \*\*Welding Technology II | * 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  | 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 |
| Beginning Drafting  | DRFT 04A: Fundamentals of Computer-Aided Drafting  | 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. Welding Technology**Certificates:**Welding Technology  | WELD 07: Fundamentals of T.I.G. and M.I.GWELD 40A: Welding Design and ConstructionWELD 40B: Welding Design and Construction,  AdvancedWELD 45: Advanced Arc Welding ProceduresWELD 48: Special Problems in Welding Technology | Ag Sales & Services TechnicianCertified WelderMetal FabricatorWelding TechnicianRobotic Welding TechnicianUnderwater WelderAutobody Technician | Certified Welding InspectorWelding EngineerResearch EngineerSource/Material EngineerQuality Assurance InspectorEnvironmental EngineerAg Mechanics Instructor  |

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