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| Career Technical Education (CTE) Program of Study for Entry into Community College | | | | | | | | | | | | | | | | | | |
|  | | | **Name:** | | | | | **ID:** | | | **Gr:** | | **Department:** Industrial Technology | | | | | |
| **Industry Sector:**  Manufacturing and Product Development | | | | | **Career Pathway:**  Welding and Materials Joining | | | | | | | **Student Organization or Club:**  Skills USA and I Do It | | | |
| **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 | Life Science | | | Physical Ed 1 | | | | Strategic English I | | | * Skills USA | |
| 10 | English 2 | | World History | | Geometry | Biology | | | Physical Ed 2 | | | | Metals Shop I | | | * Skills USA * ROP Industry Day | |
| 11 | English 3 | | US History | | Algebra 2/ Trigonometry | Physics | | | Fine Art or Foreign Language | | | | \*\*Metals Shop II | | | * Skills USA * I DO IT | |
| 12 | English 4 | | Government & Economics | | College Prep Math, Pre-Calculus or CTE Elective | **Select 2 periods from the following:**  \*\*Beginning Drafting,  \*\*Auto Mechanics I/II, Woodshop I | | | | | | | \*\*Metals Shop III | | | * Skills USA * I DO IT * 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 | | | | | | | | |  |
| Metal Shop 1-4 | | | | | | | | WELD 06: Fundamentals of Oxy-Fuel Welding and Shielded Metal Arc Welding | | | | | | | | | 3 |
| Beginning Drafting | | | | | | | | DRFT 04A: Fundamentals of Computer-Aided Drafting | | | | | | | | | 3 |
| Auto Mechanics I/II | | | | | | | | AUTO 04: Automotive Mechanics | | | | | | | | | 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.G  WELD 40A: Welding Design and Construction  WELD 40B: Welding Design and Construction,  Advanced  WELD 45: Advanced Arc Welding Procedures  WELD 48: Special Problems in Welding Technology | | | | | | | Certified Welder  Welding Journeyman  Structural Steel and Ironworker  Fabricator  Welding Technician  Robotic Welding Technician  Underwater Welder | | | | Certified Welding Inspector  Fabrication Designer  Welding Engineer  Research Engineer  Structural Engineer  Environmental Engineer  Manufacturing Engineer | | |

Merced College: POS Manufacturing & Product Development for Welding pathway for community College – 4/20/12