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| Career Technical Education (CTE) Program of Study for Entry into 4 Year University | | | | | | | | | | | | | | | | | |
|  | | **Name:** | | | | | **ID:** | | | | | **Gr:** | | **Department:** Agriculture | | | |
| **Industry Sector:**  Agriculture and Natural Resources | | | | | **Career Pathway:**  Ornamental Horticulture | | | | | **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 or  English 1  Pre-AP | Geography, Health & Wellness for Life | | Geometry | | Integrated Agricultural Biology | | Physical Ed 1 | | | Foreign Language | | | * FFA | |
| 10 | | English 2 or  English 2  Pre-AP | World History or  World History Adv. | | Algebra 2/ Trigonometry | | Agriculture Earth Science 1 | | Physical Ed 2 | | | Foreign Language | | | * FFA * ROP Industry Day | |
| 11 | | English 3 or  AP English  Lang/Comp | US History or  AP US History | | Pre-Calculus or  AP Stats | | Chemistry or Physics | | \*ROP Art and History of Floral Design | | | Choose 1 of the following:  \*\*Welding Technology I,  \*\* Ag Leadership | | | * FFA * ROP Portfolio Day | |
| 12 | | English 4 or  AP English Literature | Agriculture Government & Economics | | AP Calculus or Probability & Statistics | | **AP** Biology, Physics, or Chemistry  (or select from CTE Electives) | | **CTE Electives:** \*\*\*ROP Environmental Horticulture **and choose 1 more** **period from**: \*\*\*ROP Internships in Agriculture (2 periods), \*\*Welding Technology I or II, \*\*Beginning Drafting, \*\*Ag Leadership and Technology, \*\*Small Engines & Power Equipment | | | | | | * FFA * ROP Portfolio Day * 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 Course Exam)** | | | | | | | | | | | | | | | | |
| MUHSD/ROP | | | | | | | | MERCED COLLEGE | | | | | | | |  |
| ROP Environmental Horticulture | | | | | | | | LAND 11: Elements of landscape Horticulture | | | | | | | | 3 |
| ROP Internships in Agriculture | | | | | | | | CO-OP 41A: Cooperative Education in Agriculture | | | | | | | | 3 |
| AG Welding I, II, Equipment Construction I, II | | | | | | | | WELD 06: Fundamentals of Oxy-Fuel Welding and Shielded Metal Arc Welding | | | | | | | | 3 |
| Ag Leadership and Technology | | | | | | | | AGBS 30: Agricultural leadership | | | | | | | | 2 |
| Small Engines & Power Equipment | | | | | | | | Mech Ag 15: Small Gas Engines | | | | | | | | 3 |
| Beginning Drafting | | | | | | | | DRFT 04A: Fundamentals of Computer-Aided Drafting | | | | | | | | 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:  AA – Landscape Horticulture  AS – Landscape Horticulture  Certificates:  Landscape Horticulture | | | | | LAND 10: Plant Identification and Usage  LAND 12: Landscape Design  LAND 14: Landscape Construction and Installation  LAND 16: Plant Propagation  LAND 17: Nursery and Garden Center Practice  PLSC 10: Elements of Plant Science  SOIL 11: Fertilizer and Soil Amendments | | | | | | Nusery Sales Associate  Nursery/Greenhouse Technician  Turf Specialist  Landscape MaintenanceTechnician  Landscape Designer  Floral Designer  Garden/Equipment Supply Dealer  Pest Control Advisor | | | | Horticulturist  Entomologist  Plant Geneticist  Landscape Architect  Production Manager  Greenhouse/Nursey Manager  Owner/Entrepreneur  Agriculture Teacher | | |

Merced College:POS Agriculture Horticulture Pathway 4 Year University-4/20/12