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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:** 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 | Geography & Health & Wellness  | Algebra I | Agriculture Life Science  | Physical Ed 1  | Strategic English | * FFA
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| 10 | English 2 | World History | Geometry | Integrated Agricultural Biology | Physical Ed 2  | Select 1 of the following: \*\*Welding Technology I,**\*\***Ag Shop Skills,\*\*Ag Leadership & Technology | * FFA
* ROP Industry Day
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| 11 | English 3 | US History | Algebra 2/ Trigonometry  | Agriculture Earth Science 1 | \*ROP Art and History of Floral Design | \*\*\*ROP Environmental Horticulture | * FFA
* ROP Portfolio Day
 |
| 12 | English 4 | Agriculture Government & Economics | College Prep Math or other Math or Elective | CTE Electives: **Choose 3 periods 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
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| 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 |
| Welding Technology 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 HorticultureAS – Landscape HorticultureCertificates:Landscape Horticulture | LAND 10: Plant Identification and UsageLAND 12: Landscape Design LAND 14: Landscape Construction and InstallationLAND 16: Plant PropagationLAND 17: Nursery and Garden Center PracticePLSC 10: Elements of Plant ScienceSOIL 11: Fertilizer and Soil Amendments  | Nusery Sales AssociateNursery/Greenhouse TechnicianTurf SpecialistLandscape Maintenance TechnicianLandscape DesignerFloral DesignerGarden/Equipment Supply DealerPest Control Advisor | HorticulturistEntomologistPlant GeneticistLandscape ArchitectProduction ManagerGreenhouse/Nursey ManagerAg Extension AdvisorAgriculture Teacher |

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