|  |
| --- |
| 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 orEnglish 1 Pre-AP | Geography, Health & Wellness for Life | Geometry | Integrated Agricultural Biology | Physical Ed 1  | Foreign Language | * FFA
 |
| 10 | English 2 orEnglish 2 Pre-AP | World History orWorld History Adv. | Algebra 2/ Trigonometry | Agriculture Earth Science 1 | Physical Ed 2  | Foreign Language  | * FFA
* ROP Industry Day
 |
| 11 | English 3 orAP EnglishLang/Comp  | US History orAP 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 orAP 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 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 MaintenanceTechnicianLandscape DesignerFloral DesignerGarden/Equipment Supply DealerPest Control Advisor | HorticulturistEntomologistPlant GeneticistLandscape ArchitectProduction ManagerGreenhouse/Nursey ManagerOwner/EntrepreneurAgriculture Teacher |

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