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| Career Technical Education (CTE) Program of Study for Entry into Community College |
|  | **Name:**       | **ID:**       | **Gr:**    | **Department:** Business Department |
| **Industry Sector:** Information and Communication Technologies | **Career Pathway:** Software and Systems Development | **Student Organization or Club:**FBLA: Future Business Leaders of America |
| **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 | Life Science | Physical Ed 1  | Strategic English I | * FBLA
 |
| 10 | English 2 | World History | Geometry or Algebra 2/ Trigonometry | Biology | Physical Ed 2 | \*\*Computer Applications | * FBLA
* ROP Industry Day
 |
| 11 | English 3 | US History | GeometryAlgebra 2/ Trigonometry or  | Chemistry or Physics | Select one:Digital Media, Web Design, \*\*Computer Graphics I  | \*\*Computer Programming I | * FBLA
 |
| 12 | English 4 | Government & Economics | College Prep Math, Probability and Statistics, or Pre-Calculus | **Select two periods from below:**\*\*\*ROP Virtual EnterpriseWeb Design, Digital Media, \*\*Computer Graphics I  | \*\*Computer Programming II | * FBLA
* 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 | UNITS |
| Computer Applications I, II | AOM 50B: Document Formatting and Keyboarding/CPSC 30: Computer Applications | 6 |
| ROP Virtual Enterprise | BUS 10: Introduction to Business | 3 |
| Computer Graphics I | ART 40A: Introduction to Digital Media | 3 |
| Computer Programming I and II | CPSA 05A: Visual Basic Programming | 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.S. Computer ScienceA.S. Management Information SystemsCertificates:None available | CPSC 06: Programming Concepts and MethodologyCPSC 24: Introduction to Computer Studies and TechnologyCPSC 40A: Networking for Home and Small BusinessCPSC 40B: Working at a Small-to-Medium BusinessCPSC 40C: Routing and Switching in the EnterpriseCPSC 40D: Designing & Supporting Computer Networks | Computer Support SpecialistLAN Support TechnicianSoftware/Hardware InstallerNetwork AdministratorData Communication SpecialistWeb DesignerWebmaster | Systems EngineerNetwork AnalystDatabase AdministratorSoftware EngineerComputer ProgrammerInformation Systems Architect |

Merced College: POS (Programming) Information Support and Services Computer Science Community Colleges- 10/16/14